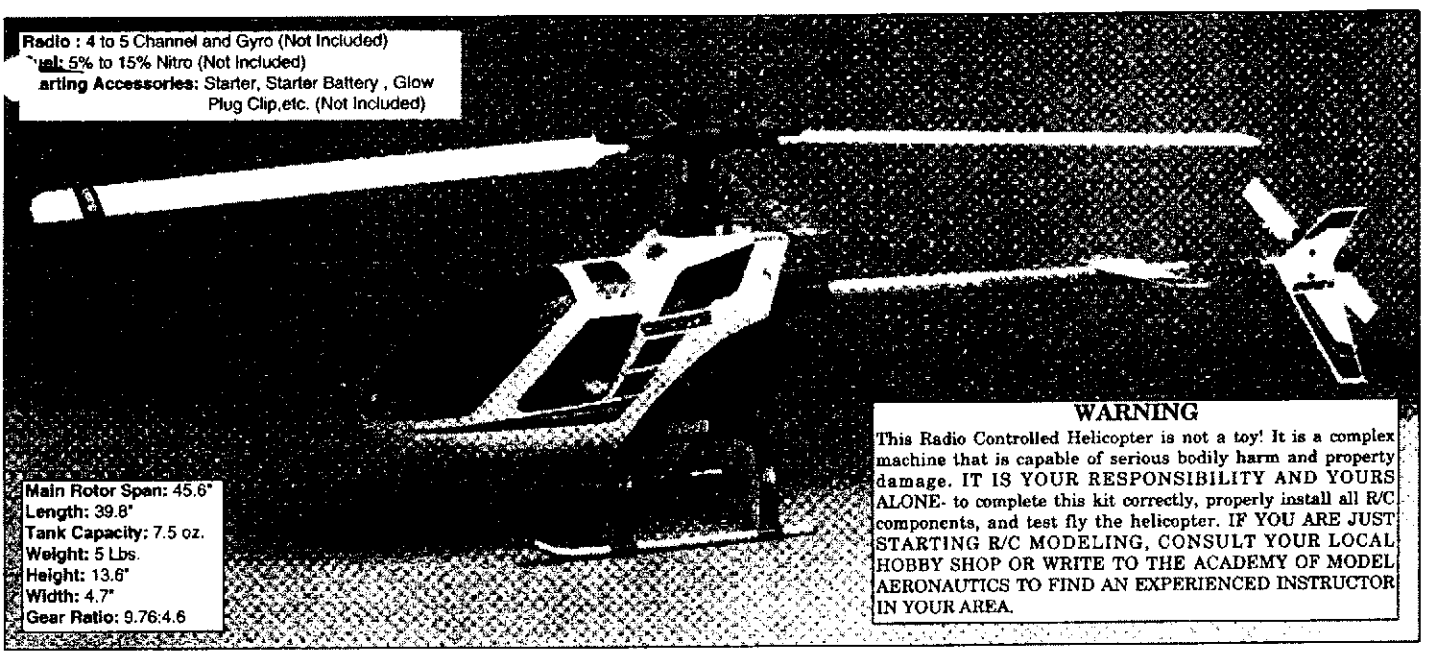
RADIO CONTROLLED 32 SIZE ENGINE POWERED HELICOPTER

CONCEPT 30 DX®

- *THE CONCEPT 30 DX IS EQUIPED WITH HEAVY ALUMINUM FLYBAR PADDLES PROVIDING EXCELLENT STABILITY FOR THE NOVICE PILOT.*
- *DDF STYLE ROTOR HEAD FOR OUTSTANDING STABILITY.*
- *FLEXIBLE LANDING GEAR TO ABSORB HARD LANDINGS.*
- *EASY STEP-BY-STEP INSTRUCTION MANUAL.*
- *COMPOSITE FIBERGLASS-FOAM BLADES FOR EXCELLENT BALANCE AND C.G. (27% FROM THE LEADING EDGE.).*
- *EASY ACCESS CONE STARTING SYSTEM.*
- *FLEXIBLE POLYPROPYLENE BODY WITH COMPOSITE MAIN STRUCTURE. THE MOST DURABLE HELICOPTER AVAILABLE.*
- *THE CONCEPT 30 DX COMES WITH 18 BALL BEARINGS.*



YOSHO KIT No. 4069

V2.0

BEFORE BEGINNING TO BUILD

BEFORE BEGINNING TO BUILD THE CONCEPT 30 DX, MAKE SURE IT'S THE RIGHT MODEL FOR YOU!

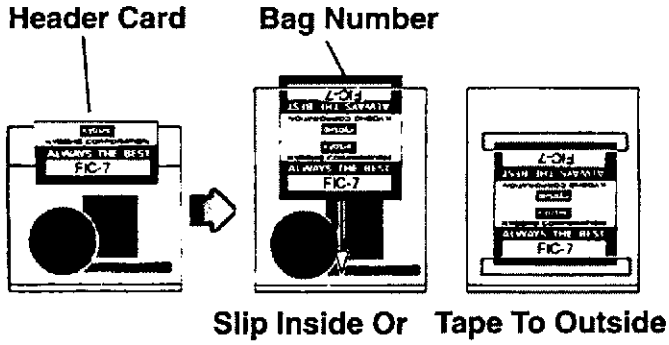
We want your experience at building this model to be a success. So before you remove any parts from their packages and begin assembly:

- Read through the entire manual carefully to make sure that you are thoroughly acquainted with the model and know what you are undertaking.
- If for any reason you think this model may not be for you, **Please Note:** Your hobby dealer cannot accept a model kit for return after assembly has begun. Return it immediately if you have doubts or concerns.

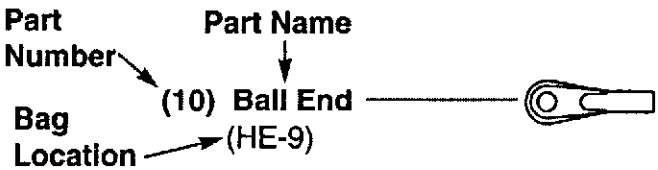
The Kyosho Concept 30 DX is a sophisticated, high-performance gas powered helicopter with many moving parts. Unlike radio-control airplanes, this style kit requires more general maintenance and patience to operate successfully. But if you're ready for fast, exciting flying... and welcome the chance to know your helicopter inside and out. you're ready for the Kyosho Concept 30 DX.

DON'T LOSE YOUR PARTS

This Kyosho instruction manual uses a cross reference system to help you locate all of the bagged parts. DO NOT open each bag and dump out the parts. Carefully remove the header card from the bag and discard the staple. Slip the header card into the bag or tape it to the outside of the bag so that the bag number shows. On pages 35 and 36 is a list of what is in each bag. These bag numbers will prove invaluable when locating parts.



In each step of assembly each part will be labeled with 1) The part number, 2) Part name and 3) Bag Location.

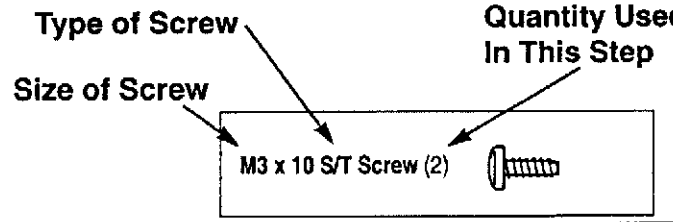


PURCHASING PARTS FOR YOUR KIT

On Pages 30 thru 34 you will find a complete list of replacement and optional parts. If by chance you need to replace a part, consult this guide for manufacturer stock numbers and contents.

FINDING THE SMALL PARTS

In the left margin of each page you will find a directory of small parts that will be used in each step. For ease of identification, these parts are shown actual size enabling you to place a screw directly on the picture to ensure you have selected the appropriate size.

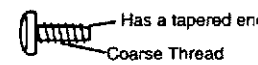


FINDING THE CORRECT SCREWS AND WASHERS IN THIS KIT

All nuts and bolts used throughout this kit are metric size. Therefore, some of the notations may not be familiar to you. An M3 nut is a 3 millimeter (3mm) nut. An M3 x 15 screw is 3mm in diameter and 15mm long. Some round parts may be labeled as a "M4 Washer" (a washer with a 4mm inside diameter) or a "3mm Bushing" (a bushing with a 3mm inside diameter). At various points throughout the manual these parts are labeled and pictured in their actual size on the left hand side of the the page. For your reference,1 millimeter equals approximately .039 inches. Also on page 10 a metric ruler is provided.

A few different types of screws are used in the construction of your model. Here are some examples and how they will be indicated in the instructions for example, Self Tapping will simply be S/T screw.

Self Tapping (S/T)

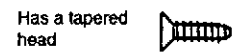


A self tapping screw has a coarse thread and is used to screw into plastic. Be careful not to tighten the screw too much. This may strip the plastic.

Screw

Screws have a fine thread and are used with nuts most of the time. They are for high stress joints where strength is required.

Flat Head Screw (F/H)



Flat head screws have a fine thread and a tapered head. This allows the head of the screw to be flush with the part it is holding so that the screw does not catch on anything.

Set Screw

Set Screws have a socket head that takes a hex wrench in order to turn. These are for areas that require tight joints where normal screws may strip out.

HELPFUL HINTS

Some precautions need to be observed when building your Kyosho kit to avoid problems:

1.) Take your time and read the instruction manual thoroughly. It's not how fast you can assemble the kit but how well it flies once it is assembled.

2.) Try to avoid working over a shag carpet. In the event that a small part or screw should fall onto the carpet, it will be difficult to find.

3.) Place a mat or towel on the work surface where you will be building the kit. This will prevent parts from rolling off and will protect the work surface at the same time.

4.) Use a muffin tin or egg carton to separate screws, nuts, washers, etc. This will make it easier to locate the correct part.

5.) **WARNING: Avoid getting products like motor cleaner or screw lock (Locktite, Zap-Lock) on the plastic parts. They can melt the plastic which will damage the model.**

6.) Avoid flying the helicopter in very cold temperatures. Both plastic and metal parts become brittle at low temperatures. In addition, grease, oil and fuel become thick causing premature wear and deficient performance.

7.) Remove all flashing from parts before assembly.

8.) Trial fit all parts to ensure proper fit before attaching them permanently.

9.) Do not use excessive force when tightening self tapping type screws into plastic. Overtightening will cause the threaded portion of the plastic to strip. It is recommended to stop tightening when some resistance is felt after the threaded portion enters the plastic.

10.) **IMPORTANT:** Note the Grease and Screw cement symbol throughout the manual and apply where shown.

11.) Avoid using power screwdrivers when assembling your kit. They tend to overtighten screws.

12.) **IMPORTANT:** The Control Rods and Ball Ends have the word "Kyosho" on them. The "Kyosho" must face outward.

HOBBICO HELICOPTER SUPPORT & SERVICE LINE

217-398-2834

Our knowledgeable technical staff is available to answer all your questions through our Helicopter Suppport and Service Line. If you have any questions on setting up your Concept 30 DX, or encounter problems during assembly, give us a call weekdays between 9:00 a.m. and 5:00 p.m. CST.

SPECIAL SYMBOLS YOU WILL SEE

Certain symbols are used throughout the instructions. Pay attention to their location.

Points where Grease should be applied.

Points where Screw Cement must be used.

REQUIRED TOOLS

THESE ARE INCLUDED IN THE KIT.

Hex Wrench Set

Grease

Screw Cement

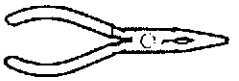
Plug Wrench

THESE ARE NOT INCLUDED IN THE KIT.

Drill and small drill bit set.

Hobby Knife (XACR4320)

Needle Nose Pliers (XACR2680)



5mm and 10mm Nut Driver (KYOC6390)

Phillips Screwdriver

WARRANTY INFORMATION

WHAT THE CONCEPT 30 DX WARRANTY MEANS TO YOU

- For 90 days after you purchase your Concept 30 DX, Kyosho will either repair or replace, at no charge, any incorrectly made part.

- Make sure you SAVE THE RECEIPT OR INVOICE you were given when you bought your model! It's your proof of purchase - and we must see it before we can honor the warranty.

- To send your Concept 30 DX in for repairs covered under warranty, you should send your helicopter to Kyosho's authorized U.S. repair facility:

Hobby Services
1610 Interstate Drive
Champaign, Illinois 61821
Attn. Service Department
Phone: (217) 398-0007

- For details on your return, be sure to follow steps 1-4 under the "Repair Service Available Anytime" section.

Limit of our Liability:
Our liability under this warranty is limited to the repair or replacement of defective parts by Hobby Services and does not include cost of shipping to us. Hobby Services does pay the shipping expense to return warranty items to you.

Exclusion and/or Voidance of Warranty:
This warranty does not apply to damage or defects resulting from misuse, abnormal service, damage in shipment or damage resulting from a crash. The warranty is voided if the model is modified, altered, or repaired by anyone other than Hobby Services. This warranty gives you specific legal rights, and you may have other rights that vary from state to state within the U.S. We are sorry, but we cannot be responsible for crash damage and/or resulting loss of kits, engines, accessories, etc.

REPAIR SERVICE AVAILABLE ANYTIME

- After the 90-day warranty has expired, you can still have your Concept 30 DX repaired for a small charge by the experts at Kyosho's authorized U.S. repair facility.

Hobby Services
1610 Interstate Drive
Champaign, Illinois 61821
Attn. Service Department
Phone: (217) 398-0007

- To speed up the repair process, please follow the instructions listed below:

1.) Under all circumstances, return the ENTIRE system: Car and Radio.

2.) Disconnect the receiver battery switch harness, and make sure the transmitter is turned off. Make sure all batteries are disconnected and any fuel drained.

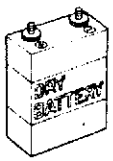
3.) Send written instructions which include: a list of all items returned, a THOROUGH explanation of the problem and the service needed, and your phone number where you can be reached during the day. If you expect your repair to be covered under warranty, be sure to include proof of date of purchase (your store receipt or purchase invoice).

4.) Also include your full return address.

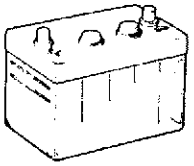
Repair charges and postage may be prepaid or billed C.O.D. Additional postage charges will be applied for non-warranty returns. All repairs shipped outside the United States must be prepaid in U.S. funds only.

PARTS NEEDED TO COMPLETE THIS KIT

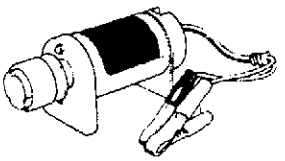
4 or 5 Channel Radio
(Helicopter Type Recommended)
(FUTK10** 5NLH With 4-S148 Servos)
(KYOJ50** Advance 6-Channel Helicopter Radio With 5-Servos and 1000 mAh Receiver Battery)



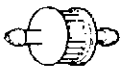
1.5 Battery
(For Glow Plug)
(EVEP 1270)



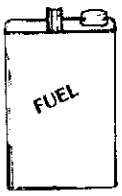
12V Starter Battery (HCAP0800)



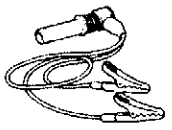
Starter (HCAP3200)



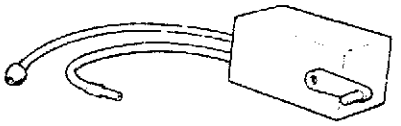
Fuel Filter(SULQ2387)



10-15% Glow Fuel (COOP1112)



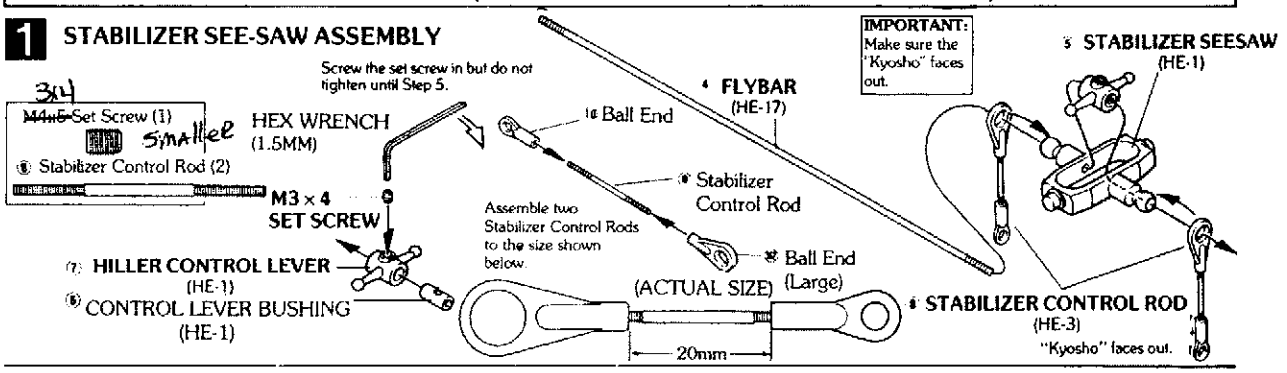
Glow Plug Clip (HCAP2500)



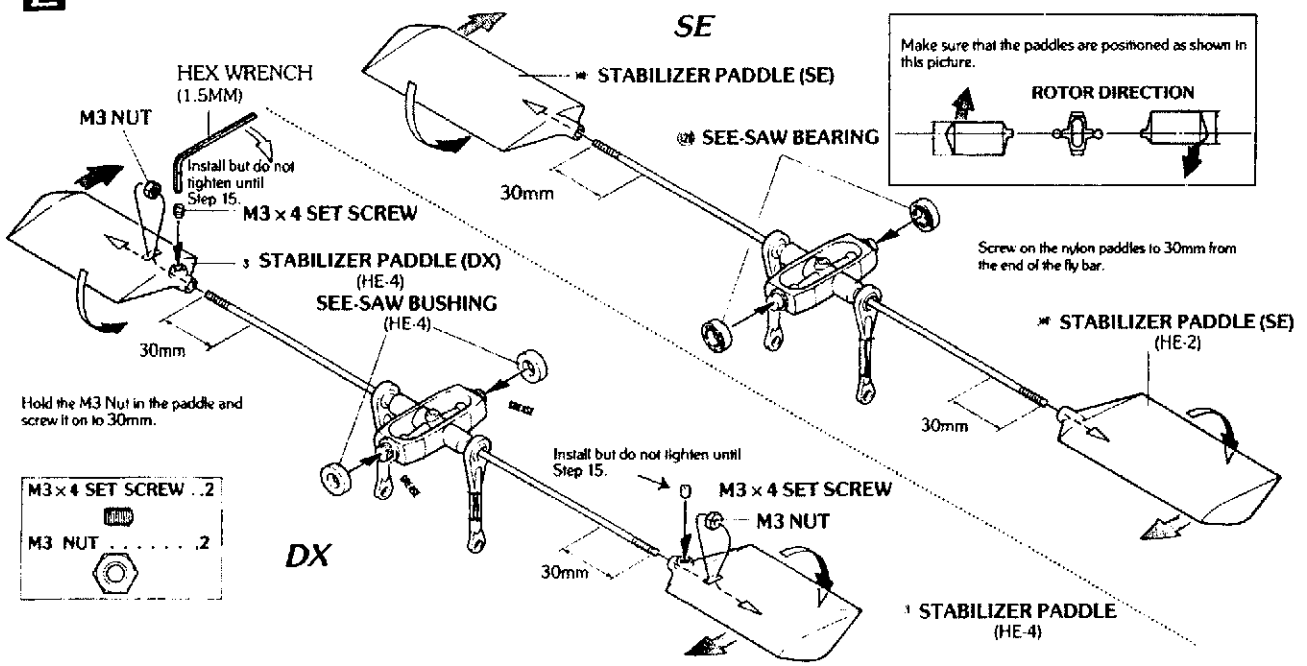
Fuel Pump (HCAP3010)

ASSEMBLY STEPS (ASSEMBLE ALL STEPS IN ORDER AS SHOWN)

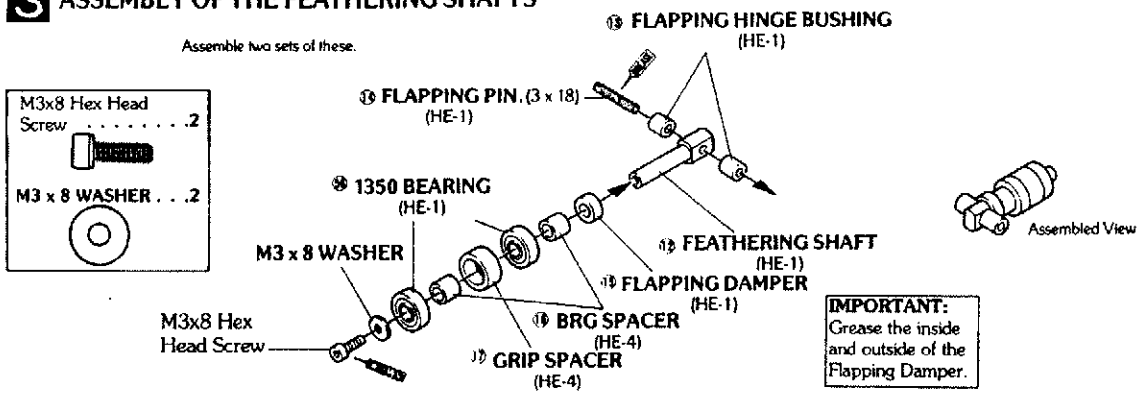
1 STABILIZER SEE-SAW ASSEMBLY



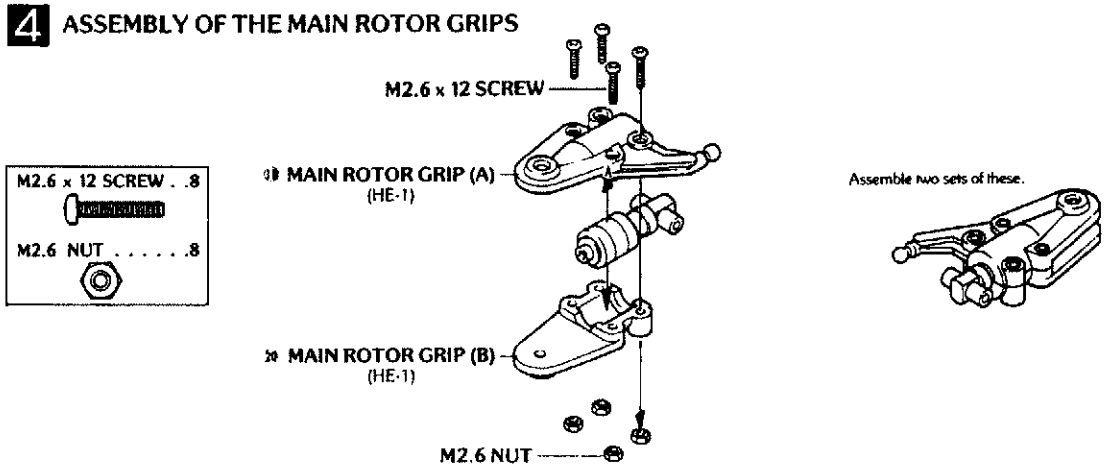
2 INSTALLATION OF THE STABILIZER PADDLES



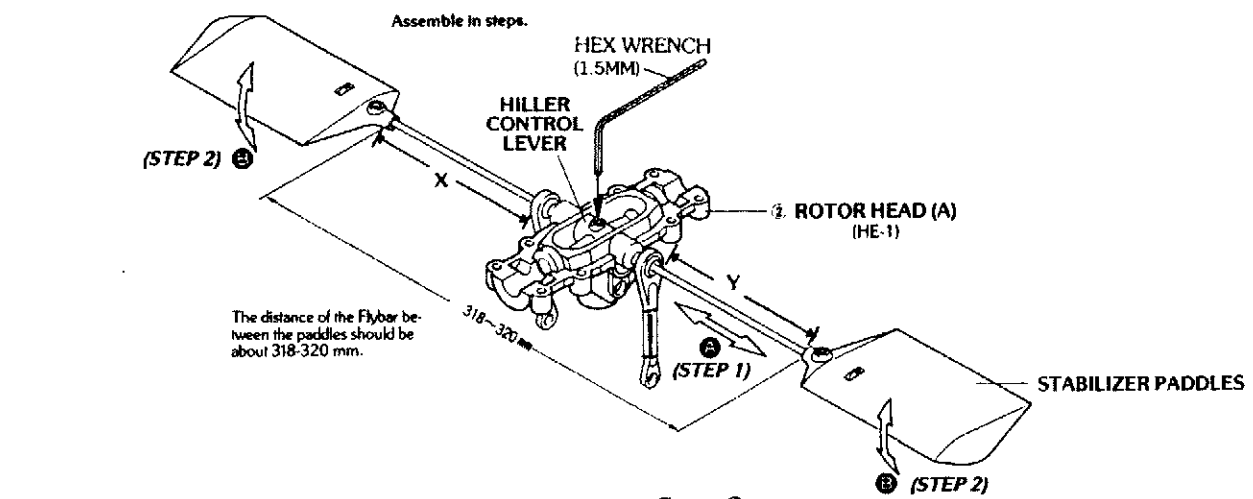
3 ASSEMBLY OF THE FEATHERING SHAFTS



4 ASSEMBLY OF THE MAIN ROTOR GRIPS

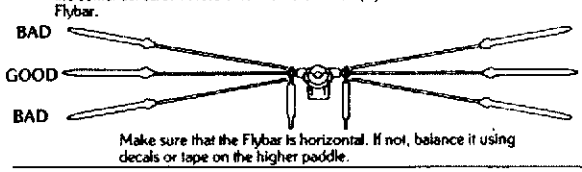


5 INSTALLING ROTOR HEAD (A)



Step 1 •

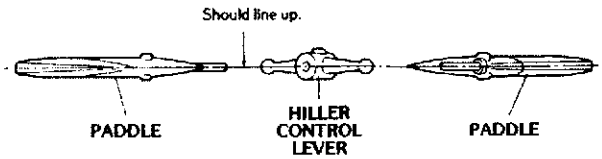
Move the Flybar so distances (X) and (Y) are equal. Then tighten the center set screw. Hold onto the Rotor Head (A) and balance the Flybar.



Make sure that the Flybar is horizontal. If not, balance it using decals or tape on the higher paddle.

Step 2 •

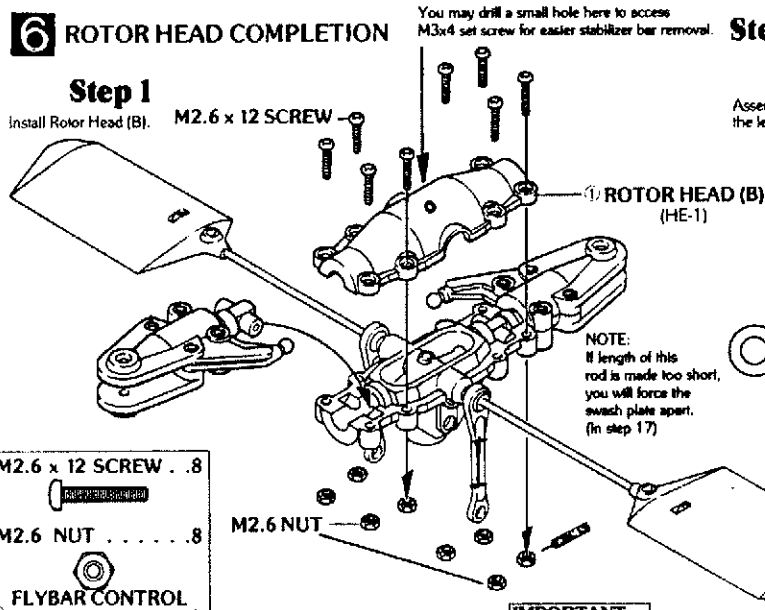
Make sure that both Stabilizer Paddles and the Hiller Control Lever are lined up in the same plane as shown.



6 ROTOR HEAD COMPLETION

Step 1

Install Rotor Head (B).



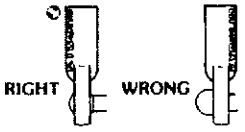
M2.6 x 12 SCREW . .8

M2.6 NUT 8

⑨ FLYBAR CONTROL ROD 2

⑱ PITCH CONTROL ROD 2

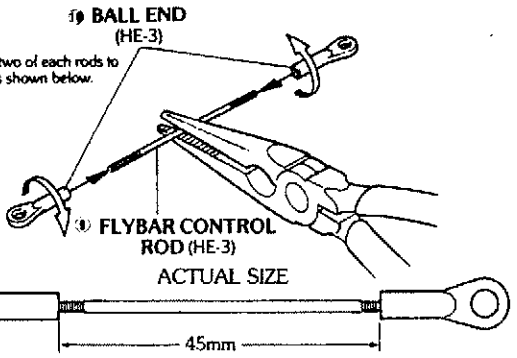
IMPORTANT: Make sure the "Kyosho" faces out.



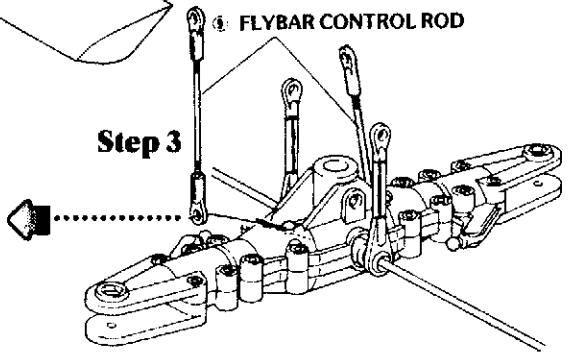
Step 2

⑲ BALL END (HE-3)

Assemble two of each rods to the lengths shown below.



Step 3



7 SWASHPLATE ASSEMBLY

M2x12 Hex Head Screw 2

M3x12 Hex Head Screw 2

M2 x 6 WASHER . . .4

M3 x 6 WASHER . . .4

㉖ MIXING LEVER BUSHING 2

㉗ LEVER BUSHING (A) 2

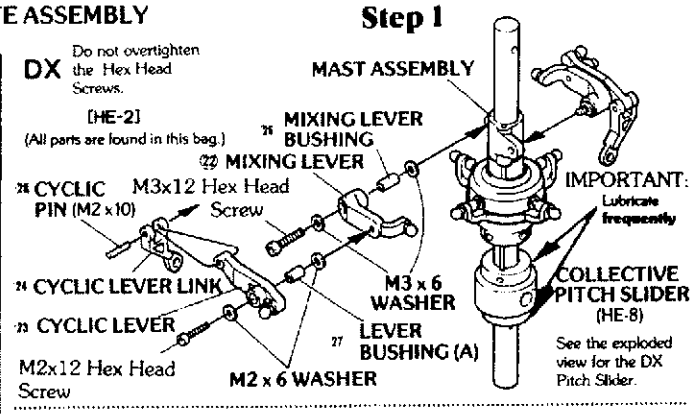
M3x12 Hex Head Screw 4

DX Do not overtighten the Hex Head Screws.

[HE-2]

(All parts are found in this bag.)

Step 1

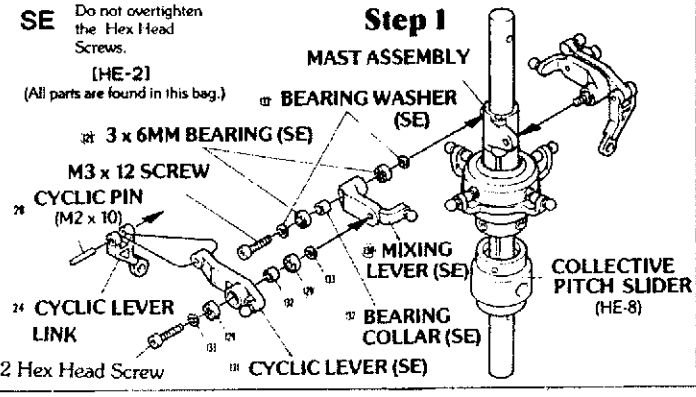


SE Do not overtighten the Hex Head Screws.

[HE-2]

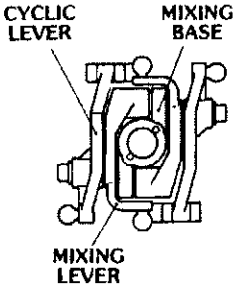
(All parts are found in this bag.)

Step 1



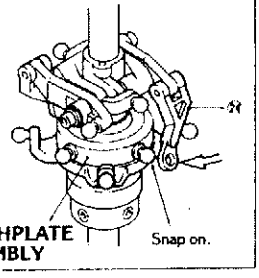
DX · SE (BOTH)

Make sure that all linkages move freely.



Step 2

Snap on both sides, part #24 as shown.



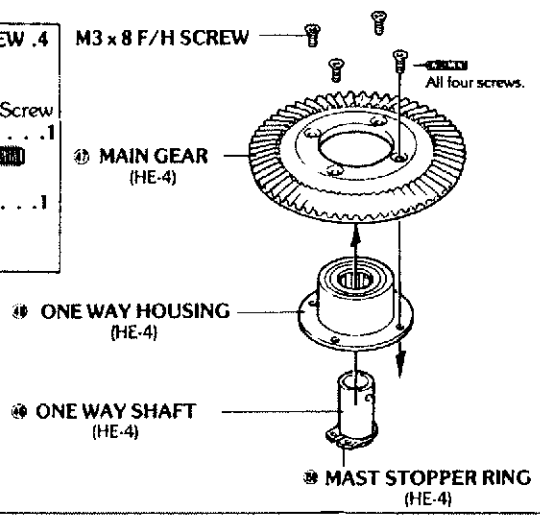
8 MAIN GEAR INSTALLATION

M3 x 8 F/H SCREW .4

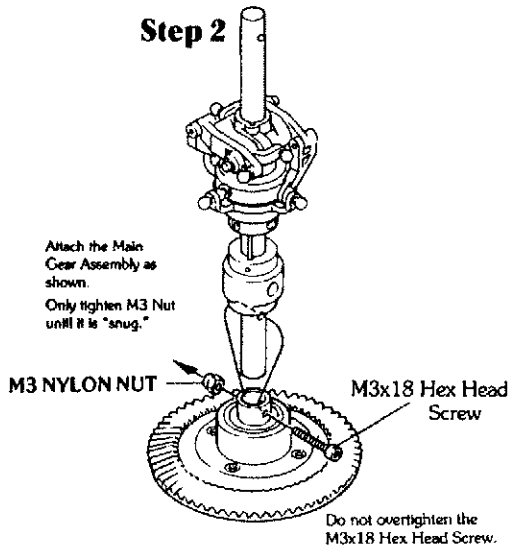
M3x18 Hex Head Screw 1

M3 NYLON NUT . . .1

Step 1



Step 2



9 MAIN FRAME ASSEMBLY

Make sure that you install the threaded inserts in their proper holes.

M3x12 Hex Head Screw 3

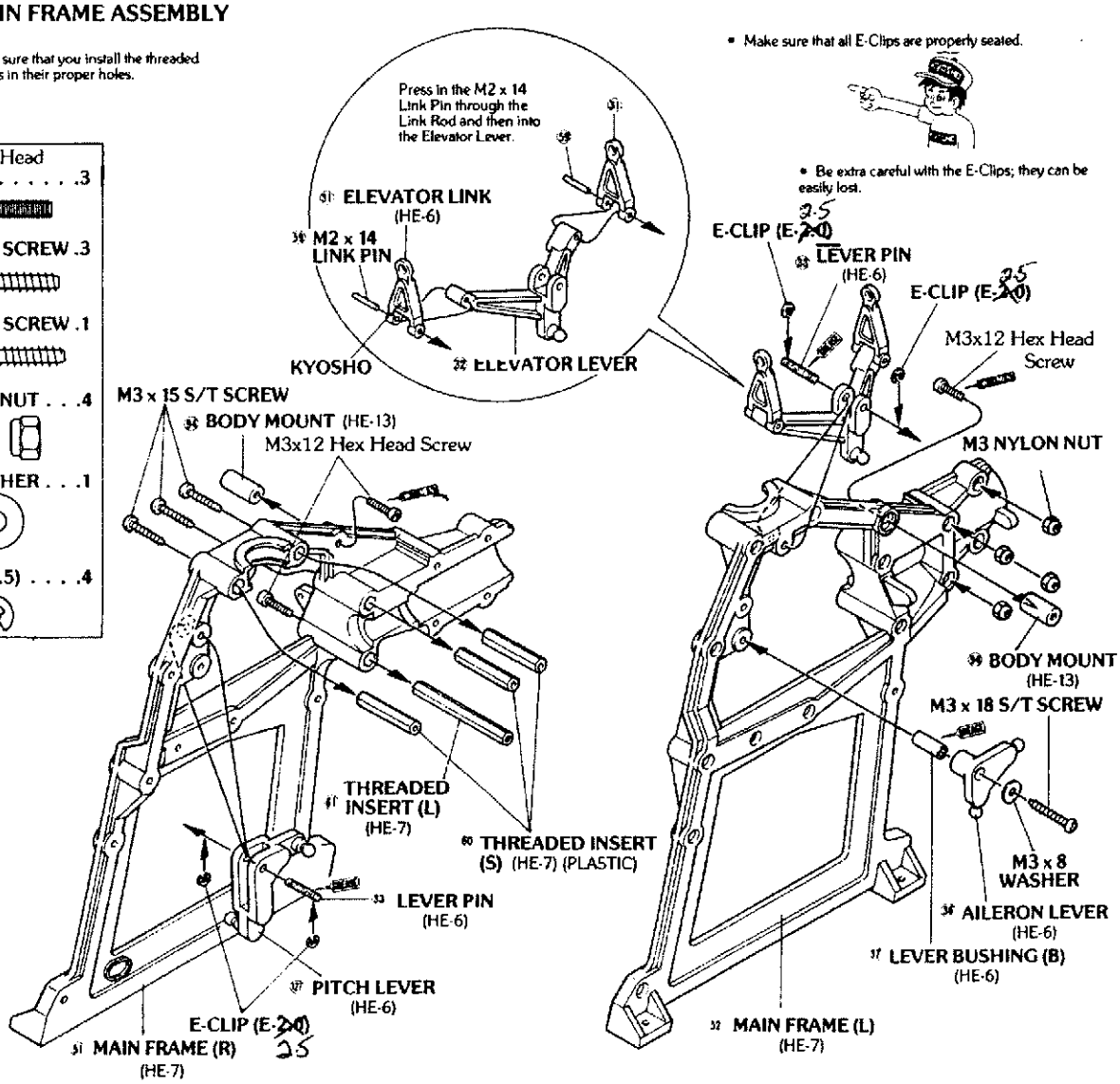
M3 x 15 S/T SCREW .3

M3 x 18 S/T SCREW .1

M3 NYLON NUT . . .4

M3 x 8 WASHER . . .1

E-CLIP (E-2.5) 4

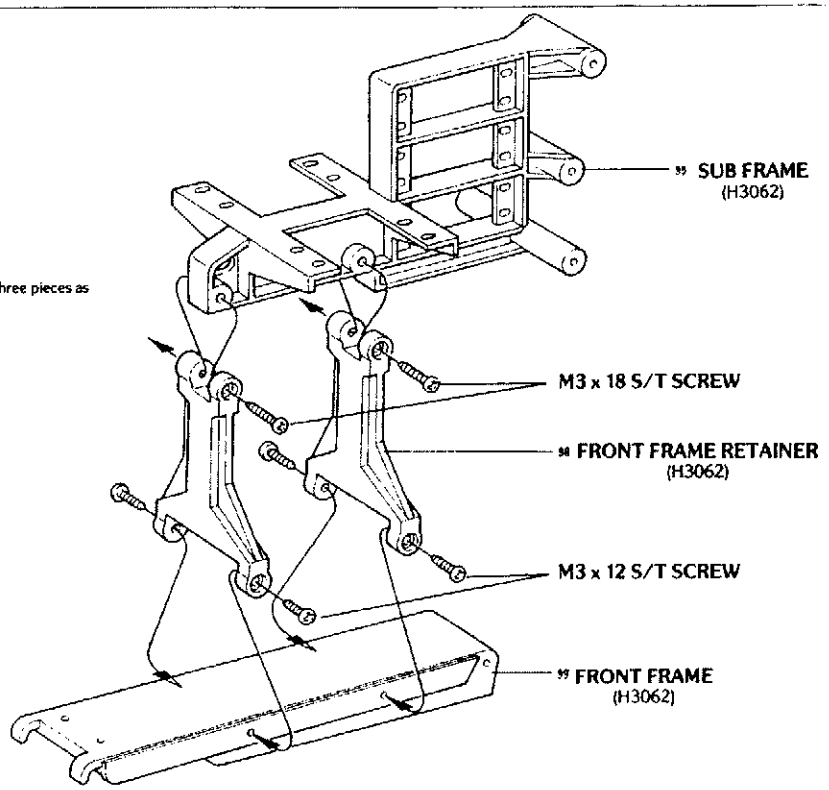


10 FRAME ASSEMBLY

M3 x 12 S/T SCREW .4

M3 x 18 S/T SCREW .2

Assemble the three pieces as shown.

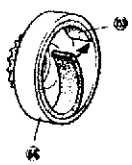


11 ENGINE PREPARATION

Remove Drive Washer from the engine. It is not needed.

Install the clutch, cooling fan, starter cone, etc.. as shown at right.

The updated Concept 30 DX Kit comes with a Drive Gear with a brass ring and fiber liner. Glue the liner to the Drive Gear with J.B. Weld or Slow Cure Epoxy only.

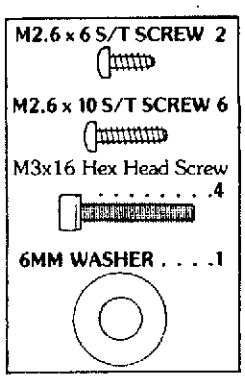


M2.6 x 6 S/T SCREW 2

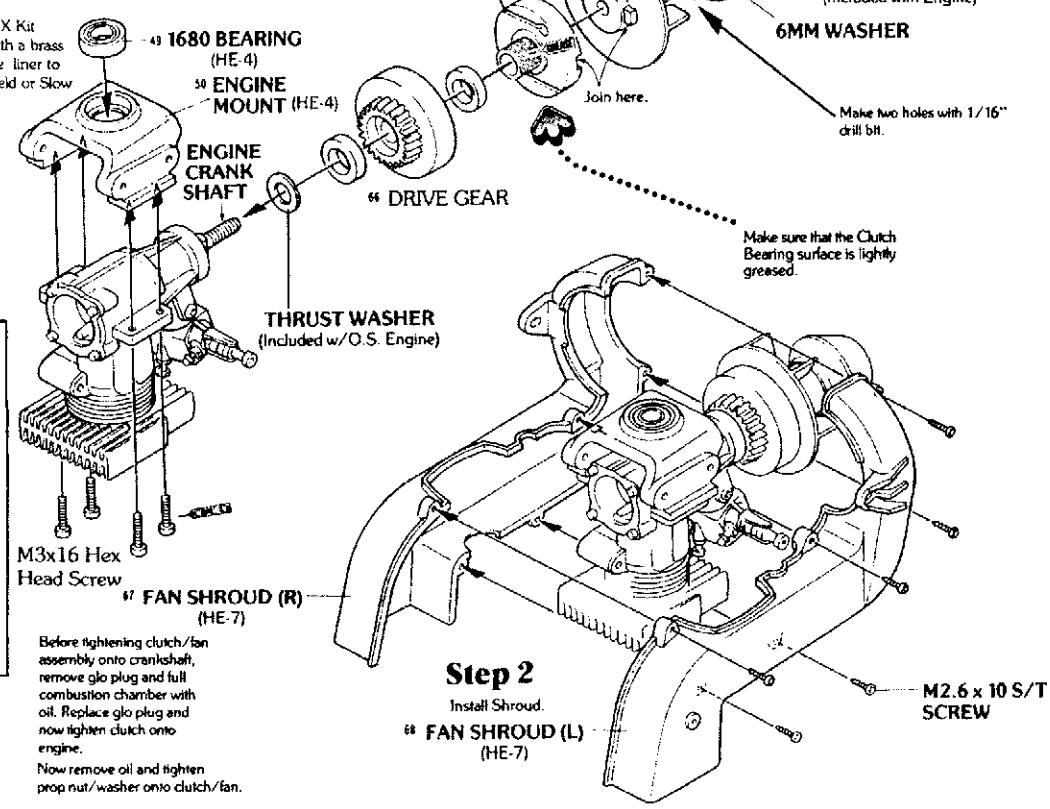
M2.6 x 10 S/T SCREW 6

M3x16 Hex Head Screw 4

6MM WASHER 1



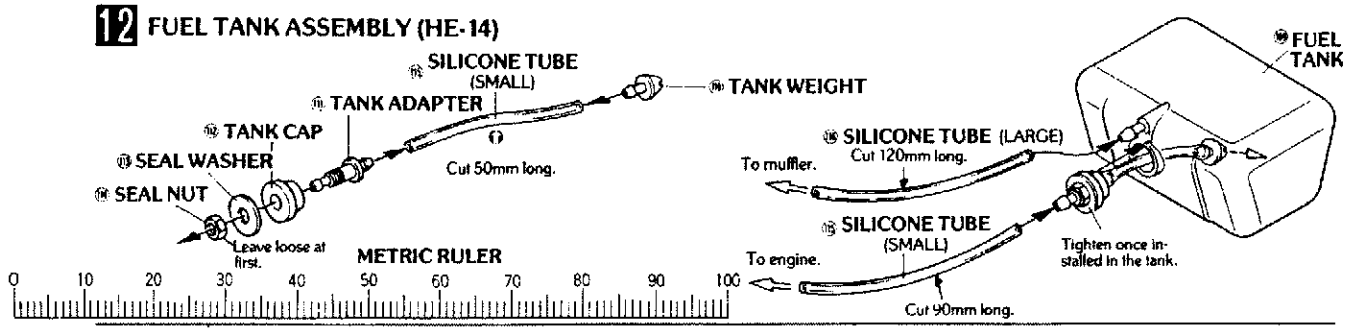
Step 1



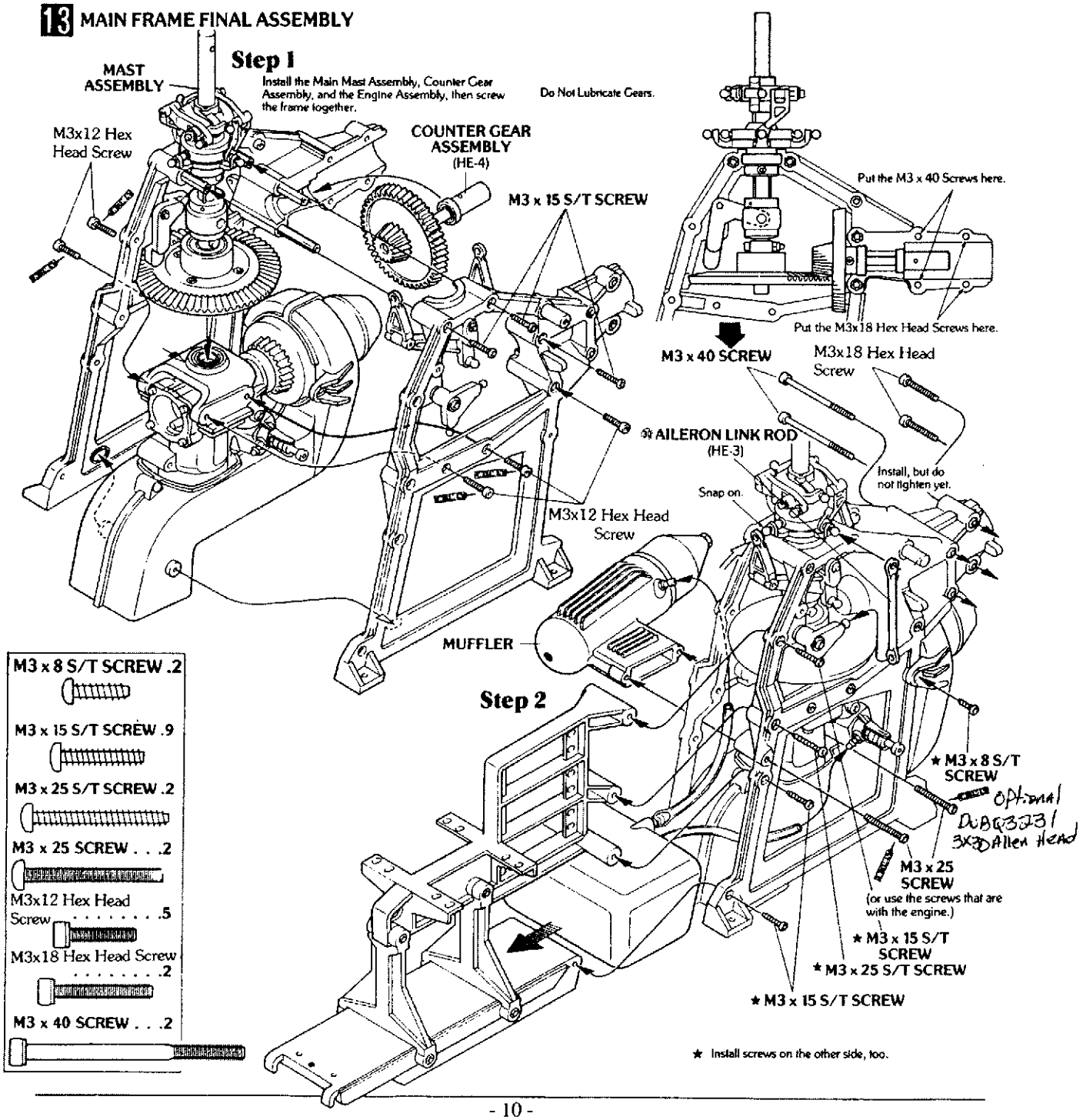
Before tightening clutch/fan assembly onto crankshaft, remove glo plug and full combustion chamber with oil. Replace glo plug and now tighten clutch onto engine.

Now remove oil and tighten prop nut/washer onto clutch/fan.

12 FUEL TANK ASSEMBLY (HE-14)



13 MAIN FRAME FINAL ASSEMBLY



M3 x 8 S/T SCREW .2

M3 x 15 S/T SCREW .9

M3 x 25 S/T SCREW .2

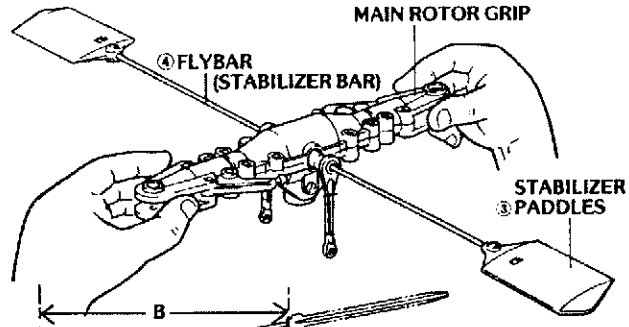
M3 x 25 SCREW . . .2

M3x12 Hex Head Screw 5

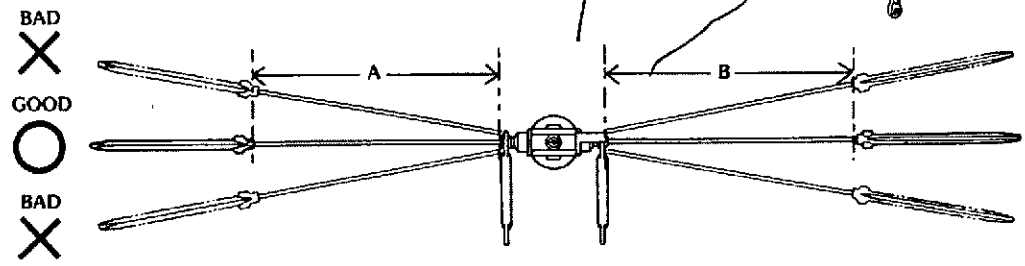
M3x18 Hex Head Screw 2

M3 x 40 SCREW . . .2

14 CHECK THE STABILIZER BALANCE

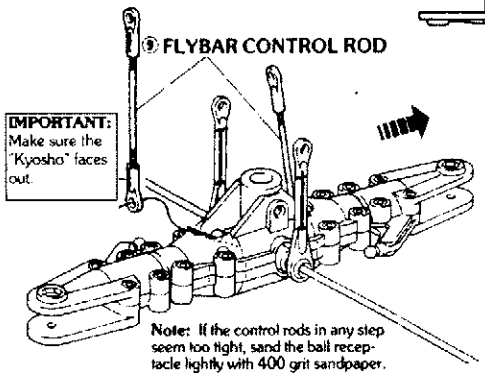


Note: Flybar segments A and B should be equal. Hold the rotor head as shown and make sure that the Flybar is horizontal (O). If not (X), balance it using decals or tape on the higher side.

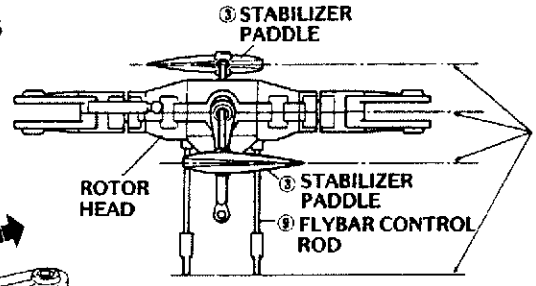


15 CHECK THE FLYBAR ANGLES

Install the Flybar control rods as shown below.

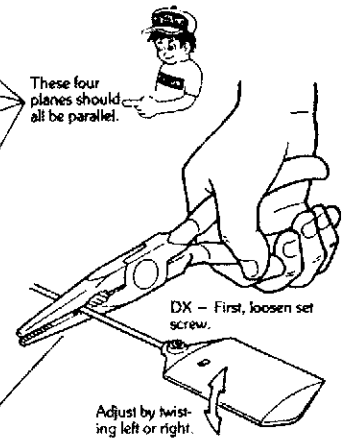


Note: If the control rods in any step seem too tight, sand the ball receptacle lightly with 400 grit sandpaper.

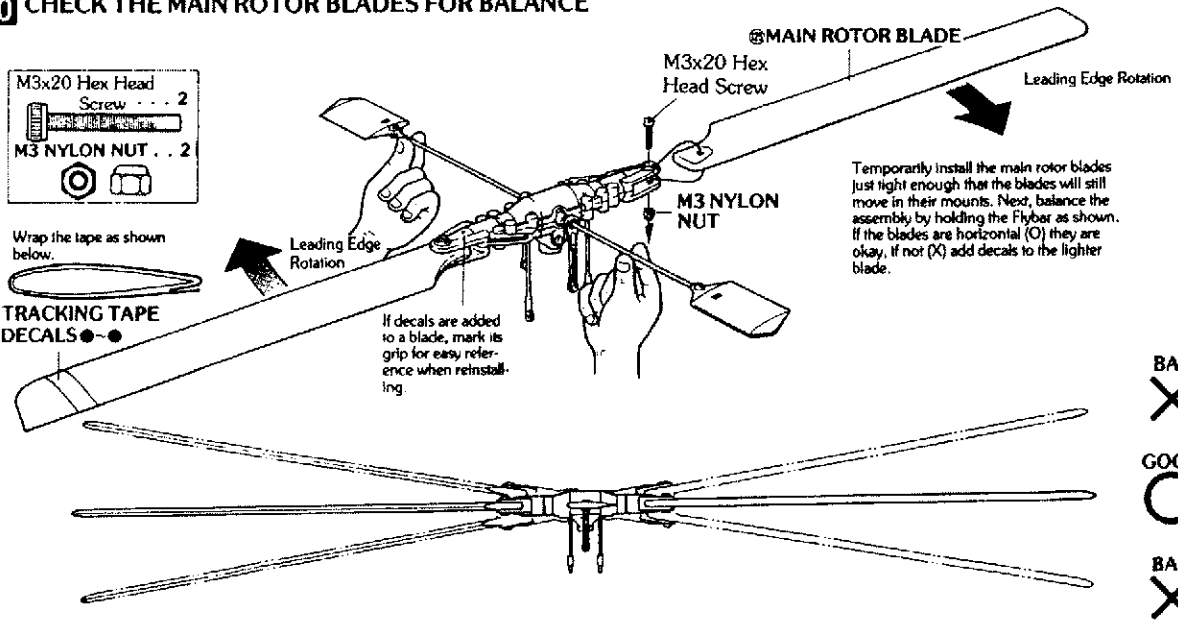


View the rotor head from the side and make sure that the stabilizer paddles, the rotor head, and the Flybar control rod ends are parallel with each other. If not, hold the Flybar and turn the paddles until they are parallel. (DX – once the paddles are lined up, tighten the two M3 x 4 Set Screws.)

To prevent scratching place a small piece of cloth or paper around the Flybar.



16 CHECK THE MAIN ROTOR BLADES FOR BALANCE



Wrap the tape as shown below.

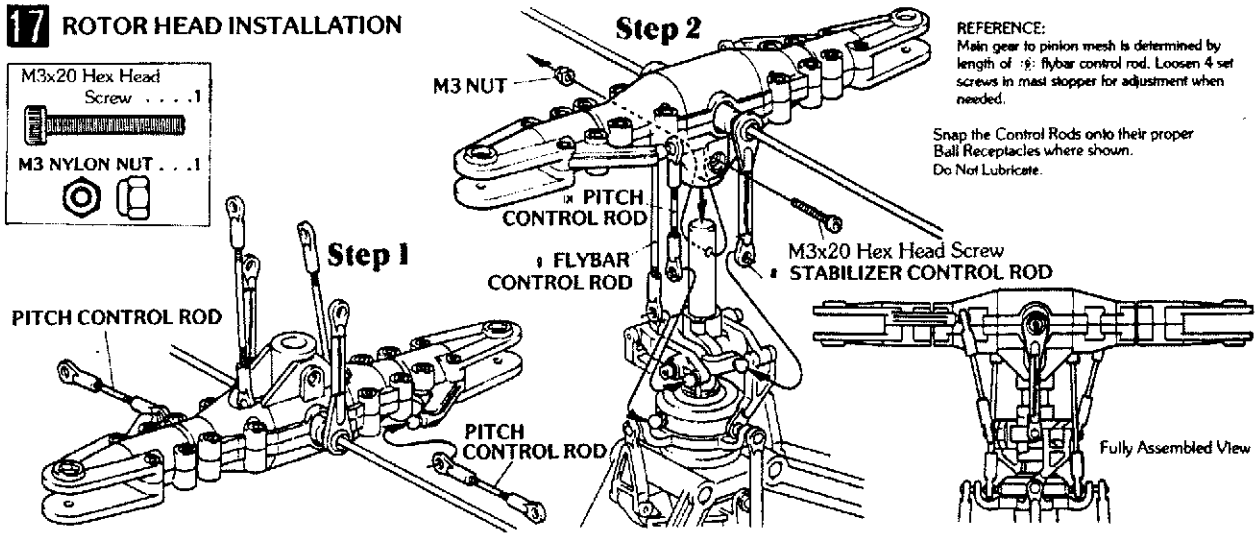
If decals are added to a blade, mark its grip for easy reference when reinstalling.

Temporarily install the main rotor blades just tight enough that the blades will still move in their mounts. Next, balance the assembly by holding the Flybar as shown. If the blades are horizontal (O) they are okay. If not (X) add decals to the lighter blade.

17 ROTOR HEAD INSTALLATION

M3x20 Hex Head Screw 1

M3 NYLON NUT . . .1



REFERENCE:
Main gear to pinion mesh is determined by length of ⑨ flybar control rod. Loosen 4 set screws in mast stopper for adjustment when needed.

Snap the Control Rods onto their proper Ball Receptacles where shown.
Do Not Lubricate.

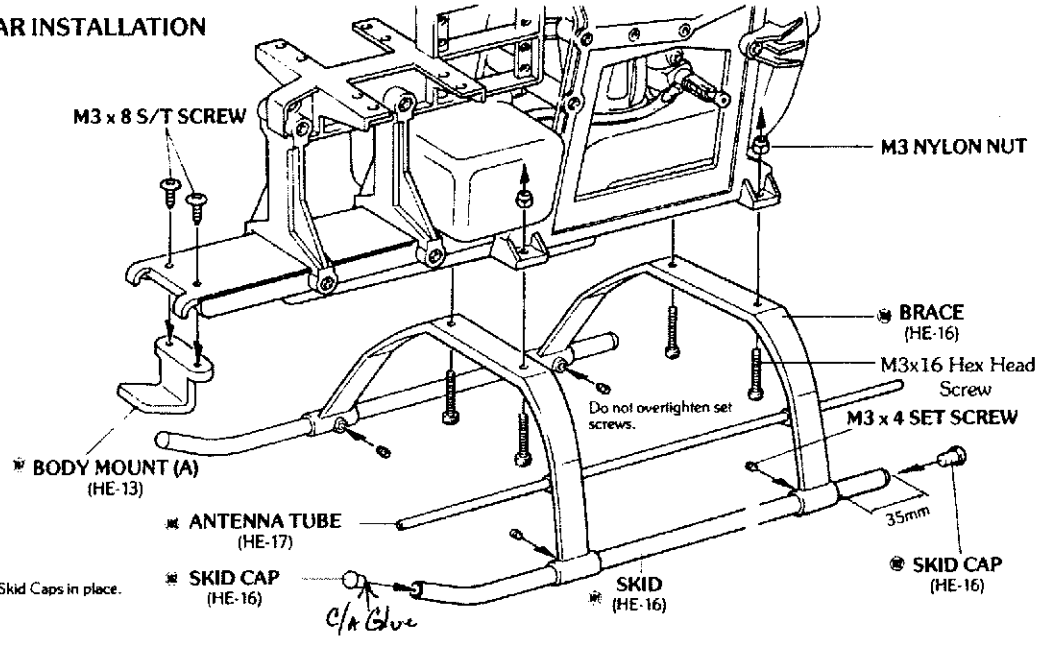
18 LANDING GEAR INSTALLATION

M3x16 Hex Head Screw 4

M3 x 8 S/T SCREW .2

M3 x 4 SET SCREW .4

M3 NYLON NUT . . .4



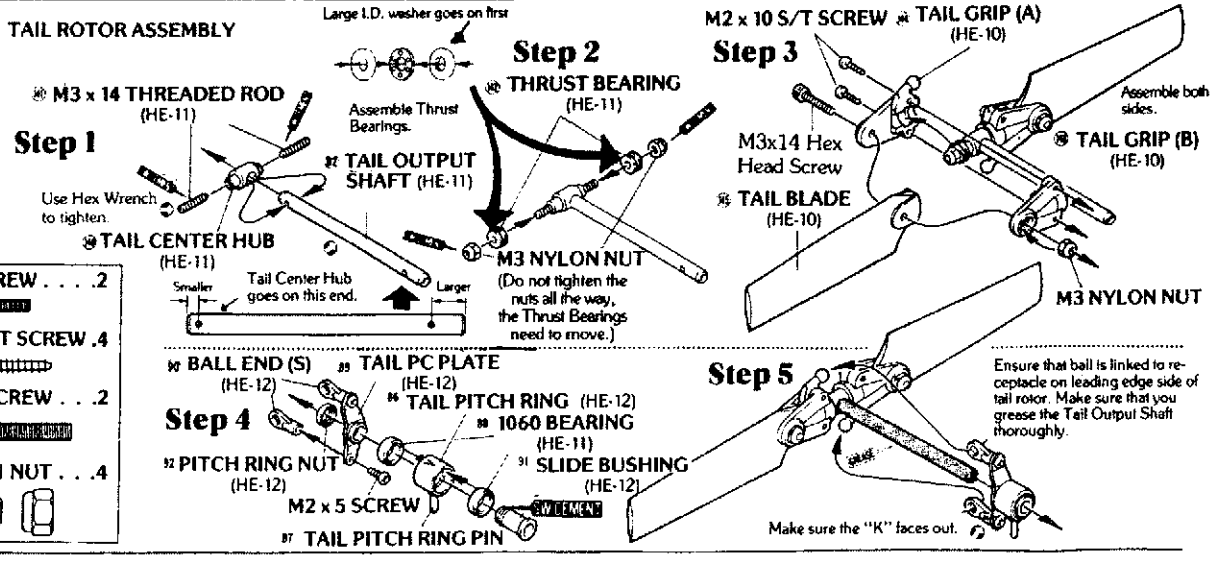
19 TAIL ROTOR ASSEMBLY

M2 x 5 SCREW 2

M2 x 10 S/T SCREW .4

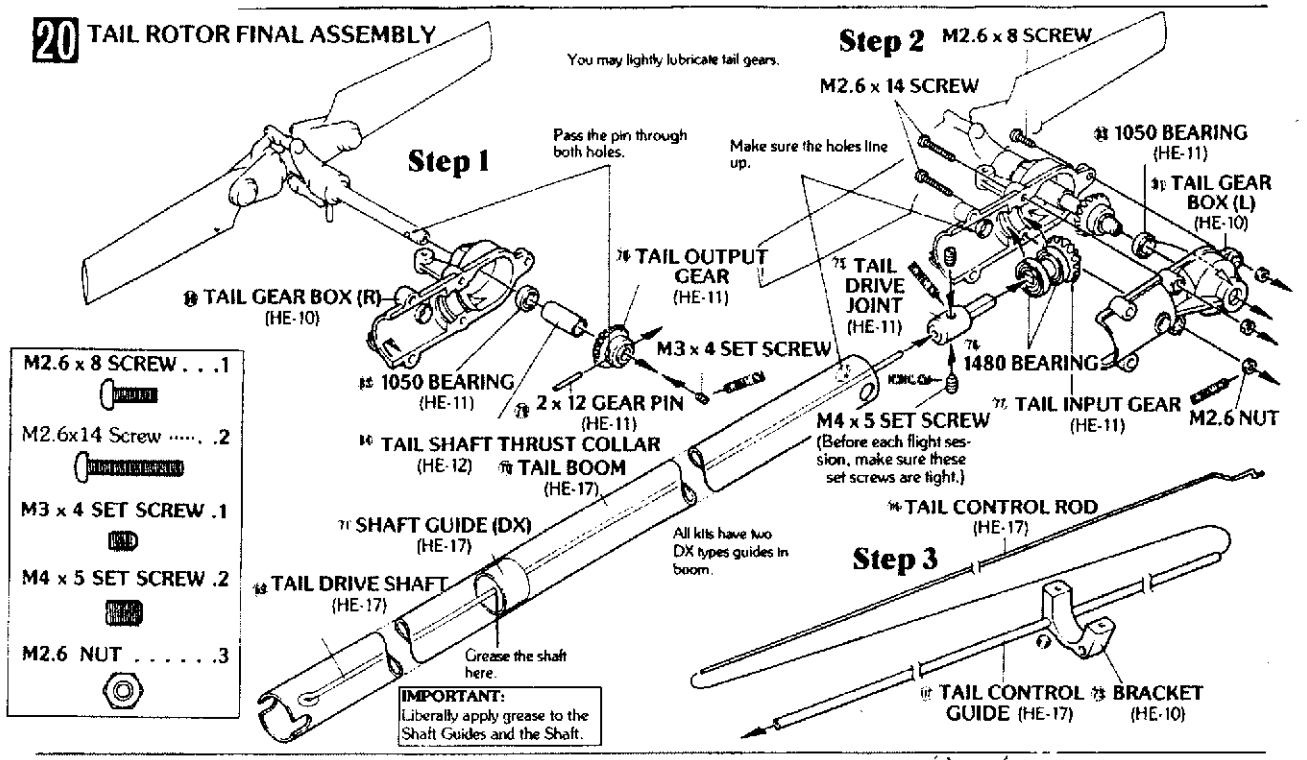
M3 x 14 SCREW . . .2

M3 NYLON NUT . . .4

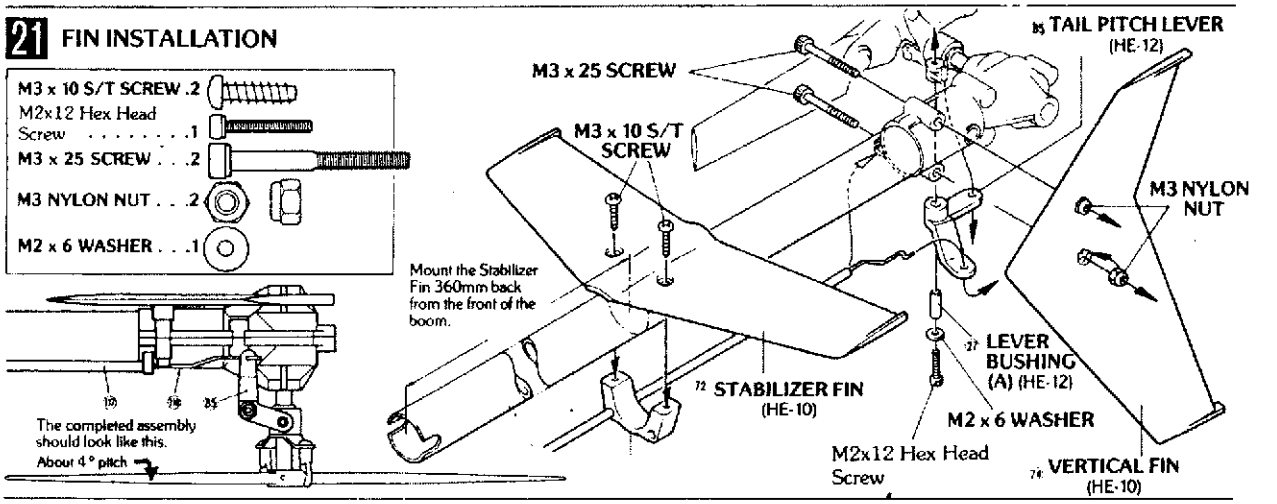


Ensure that ball is linked to receptacle on leading edge side of tail rotor. Make sure that you grease the Tail Output Shaft thoroughly.

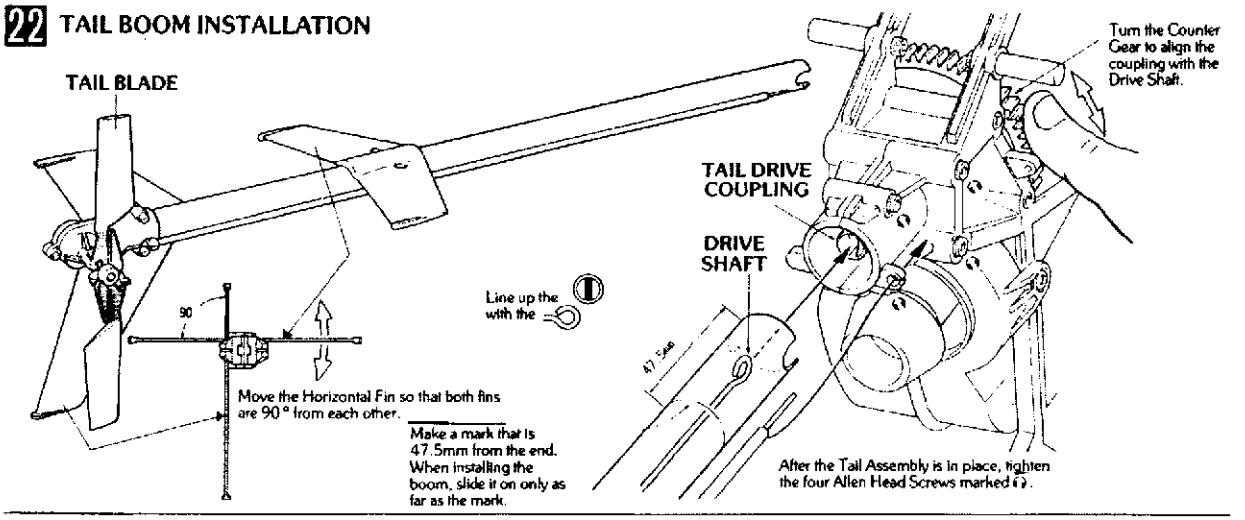
20 TAIL ROTOR FINAL ASSEMBLY



21 FIN INSTALLATION



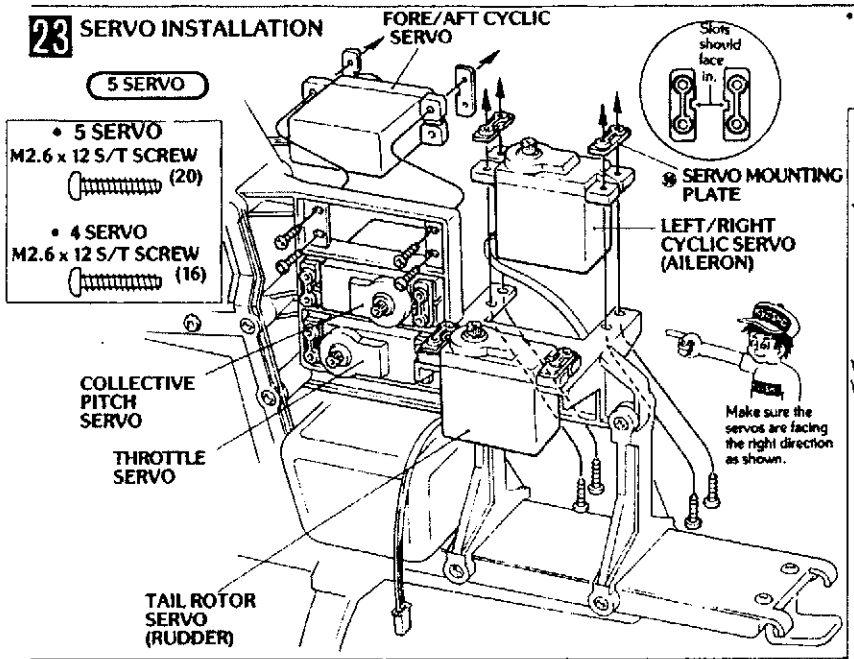
22 TAIL BOOM INSTALLATION



23 SERVO INSTALLATION

5 SERVO

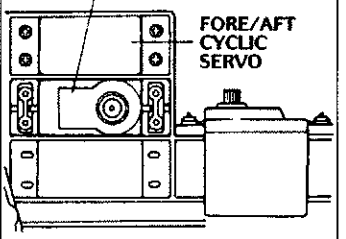
- 5 SERVO
  M2.6 x 12 S/T SCREW (20)
- 4 SERVO
  M2.6 x 12 S/T SCREW (16)



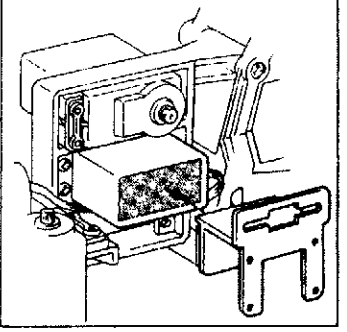
- Be sure to use the rubber grommets included with the radio system (the brass eyelets are not used).

4 SERVO

In case you use just 4 servos: One servo is used for both the pitch and engine throttle control. Mount in the middle position.



The switch mount is installed behind the pitch/engine servo with Double-Sided Tape as shown.



24 INSTALLATION OF THE RECEIVER/BATTERY/AND OPTIONAL GYRO

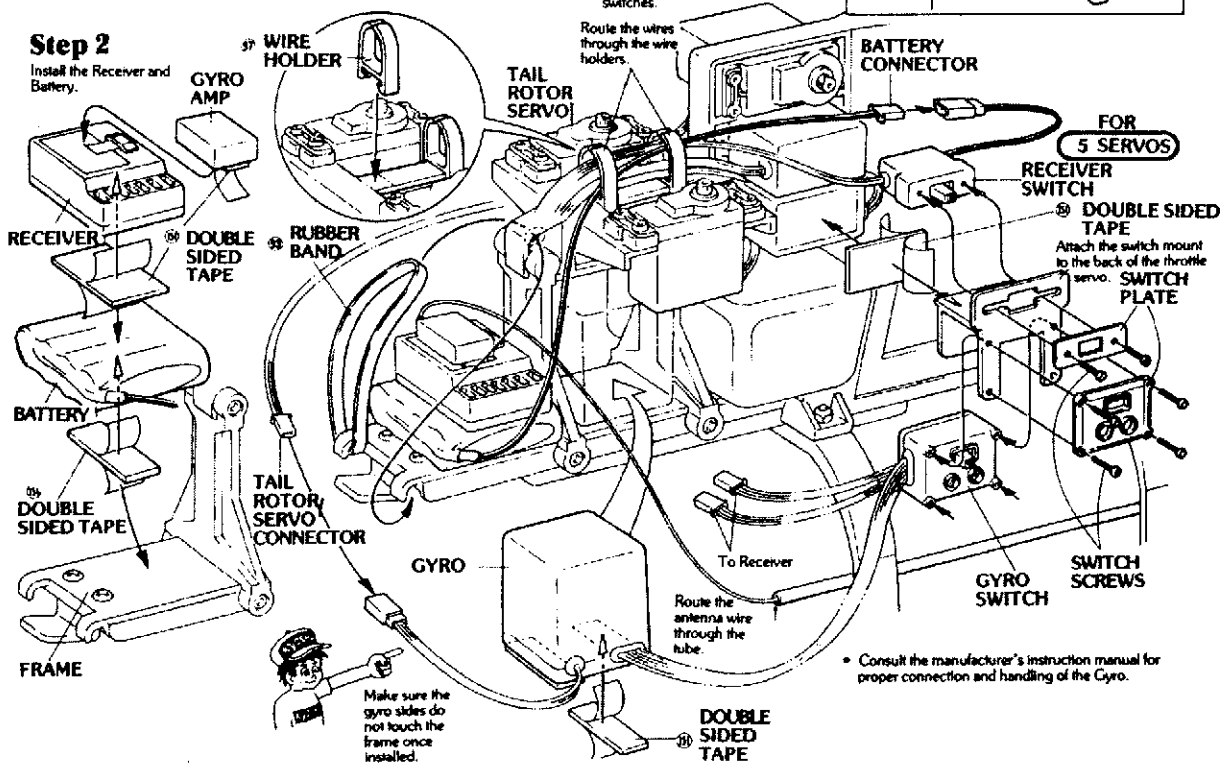
IMPORTANT:
For best crash protection, wrap the receiver and receiver battery in soft foam.

Step 1 Cut the double sided tape as indicated (use the ruler below).

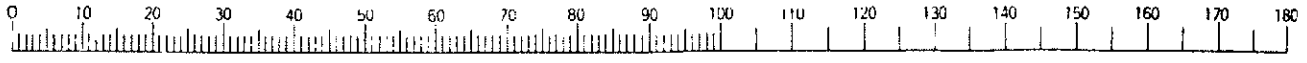
SWITCH MOUNT	BATTERY / GYRO AMP	RECEIVER	GYRO / GYRO	10 / 10
30	40	40	40	

Step 2
Install the Receiver and Battery.

Step 3
Mount the Gyro and the switches.

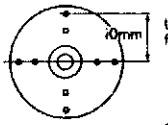


- Consult the manufacturer's instruction manual for proper connection and handling of the Gyro.

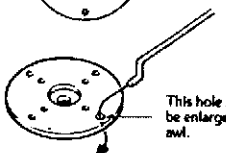


25 CYCLIC CONTROL ROD INSTALLATION

The following applies to steps 25-29.



Use a hole 10mm from center

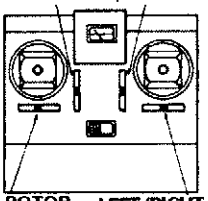


This hole may have to be enlarged with an awl.

- Turn the radio on.
- With the trims centered and the servos in neutral position, the servo horns should be set to 90° (See below).

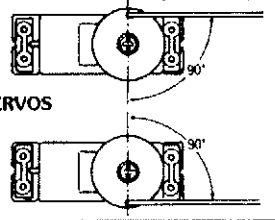
THROTTLE TRIM

FORE/AFT CYCLIC TRIM (ELEVATOR)



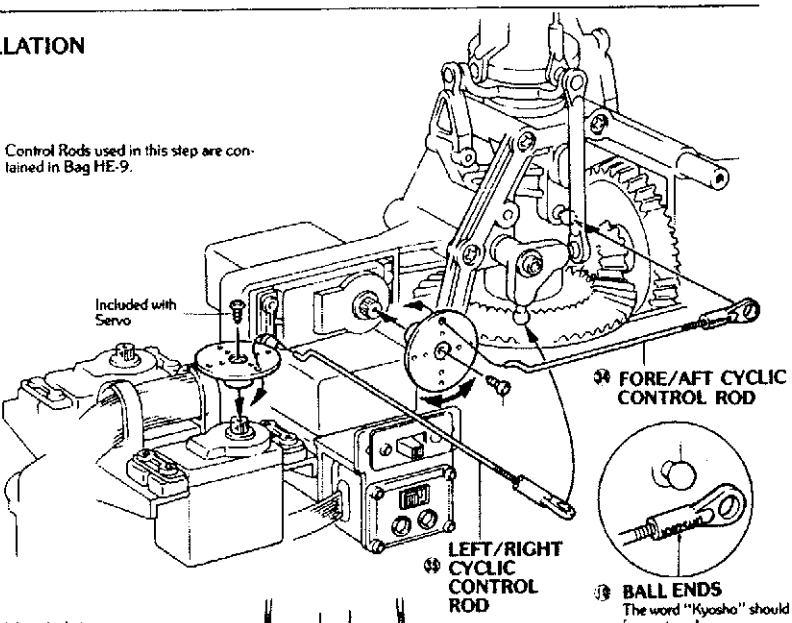
TAIL ROTOR TRIM (RUDDER)

LEFT/RIGHT CYCLIC TRIM (AILERON)

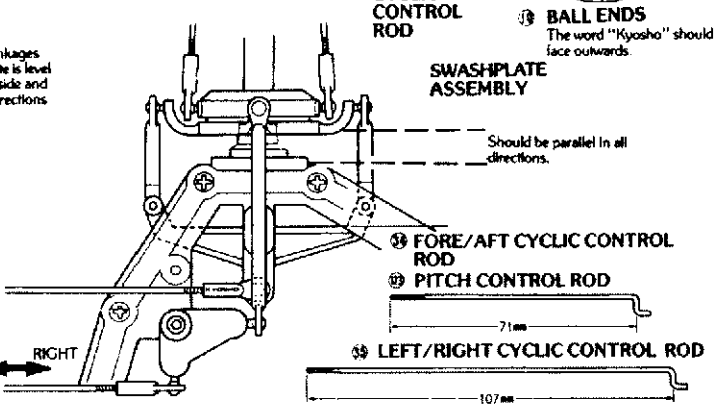


SERVOS

Control Rods used in this step are contained in Bag HE-9.

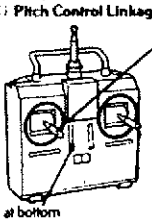


- Adjust the linkages so the swashplate is level in both side to side and front to back directions as shown.



26 THROTTLE AND PITCH CONTROL ROD INSTALLATION (4 SERVO OPERATION) (FOR 5 SERVO OPERATION SKIP TO STEP 27)

(1) Pitch Control Linkage

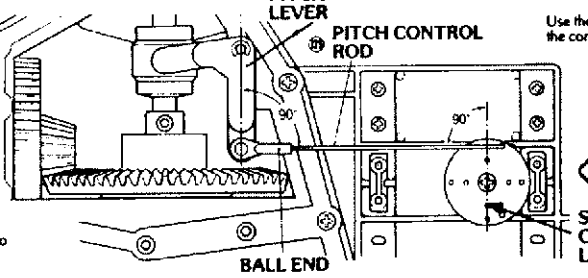


CENTERED STICK

With the radio on, position the throttle stick in the center and the trim low before installing the control rod.

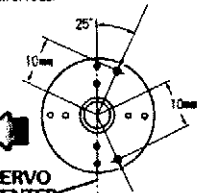
Trim at bottom

- Adjust the ball end so that the pitch lever and the servo center line is 90° to the control rod.



Use the holes below for the control rods.

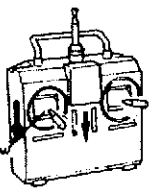
Pitch Control Rod Hole



SERVO CENTER LINE

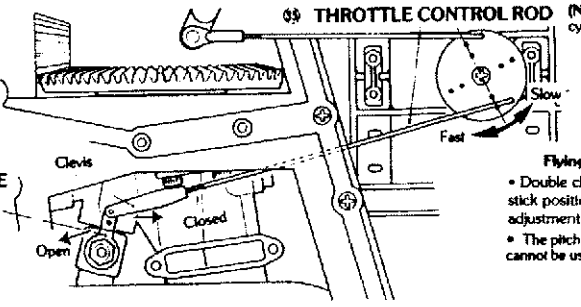
THROTTLE CONTROL ROD HOLE

(2) Throttle Control Linkage



With the radio on, position the throttle stick and trim all the way down before installing the control rod.

㉞ THROTTLE CONTROL ROD (Note: Same length as the left/right cyclic control rod.)



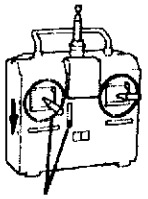
(Use the O.S. metal carburetor arm).

- Adjust the clevis so that the throttle control lever is all the way closed.

Flying with 4 Servos

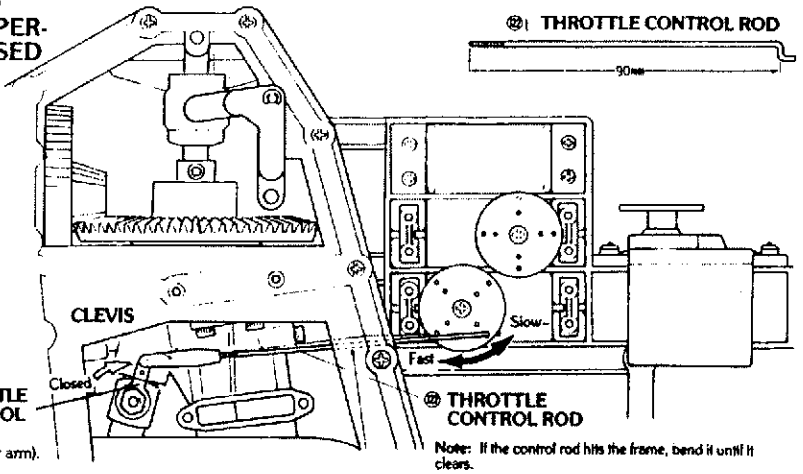
- Double check the pitch angle with control stick position (see page 18, collective pitch adjustment.
- The pitch trim and the throttle hold features cannot be used with the 4 servo set up.

27 THROTTLE CONTROL ROD INSTALLATION 5 SERVO OPERATION (IF 4 SERVOS ARE USED SKIP TO STEP 29)



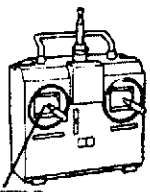
Position the throttle stick and the trim lever to their lowest settings.

Adjust the Clevis so that the throttle control lever is all the way closed when the throttle stick is down.



@1 THROTTLE CONTROL ROD

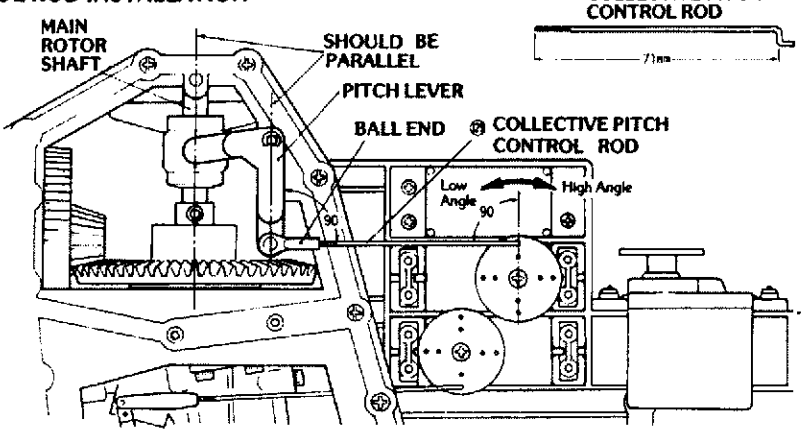
28 COLLECTIVE PITCH CONTROL ROD INSTALLATION (5 SERVO OPERATION)



Move the throttle stick and trim to the center position.

THROTTLE STICK

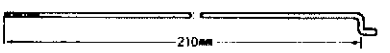
With the throttle in the middle position, adjust the ball end so that the main rotor shaft and the pitch lever are parallel.



@ COLLECTIVE PITCH CONTROL ROD

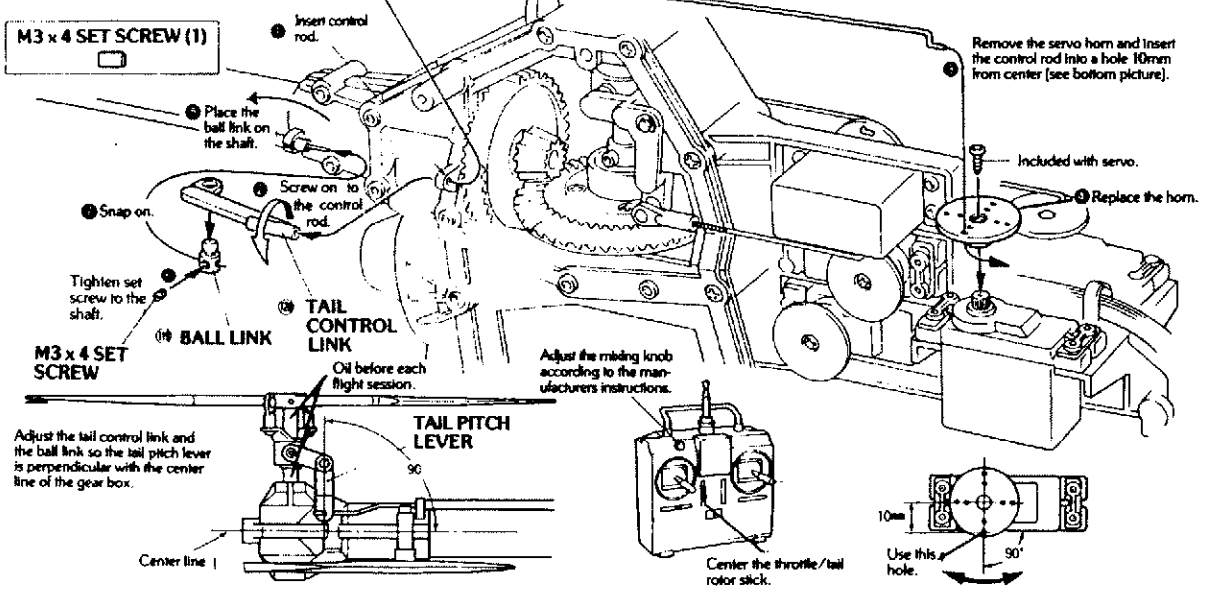
29 TAIL ROTOR LINKAGE INSTALLATION

@ TAIL ROTOR CONTROL ROD



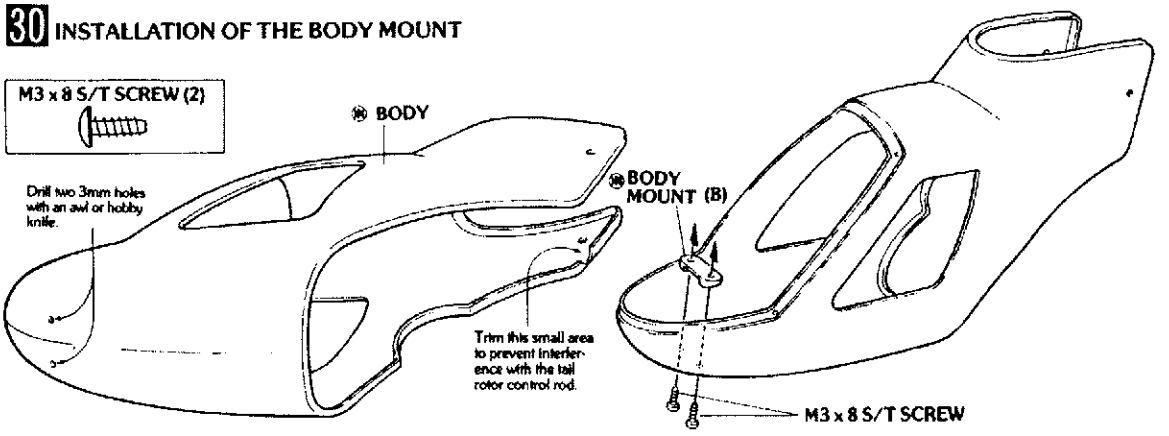
Assemble in order ❶~❽

M3 x 4 SET SCREW (1)



30 INSTALLATION OF THE BODY MOUNT

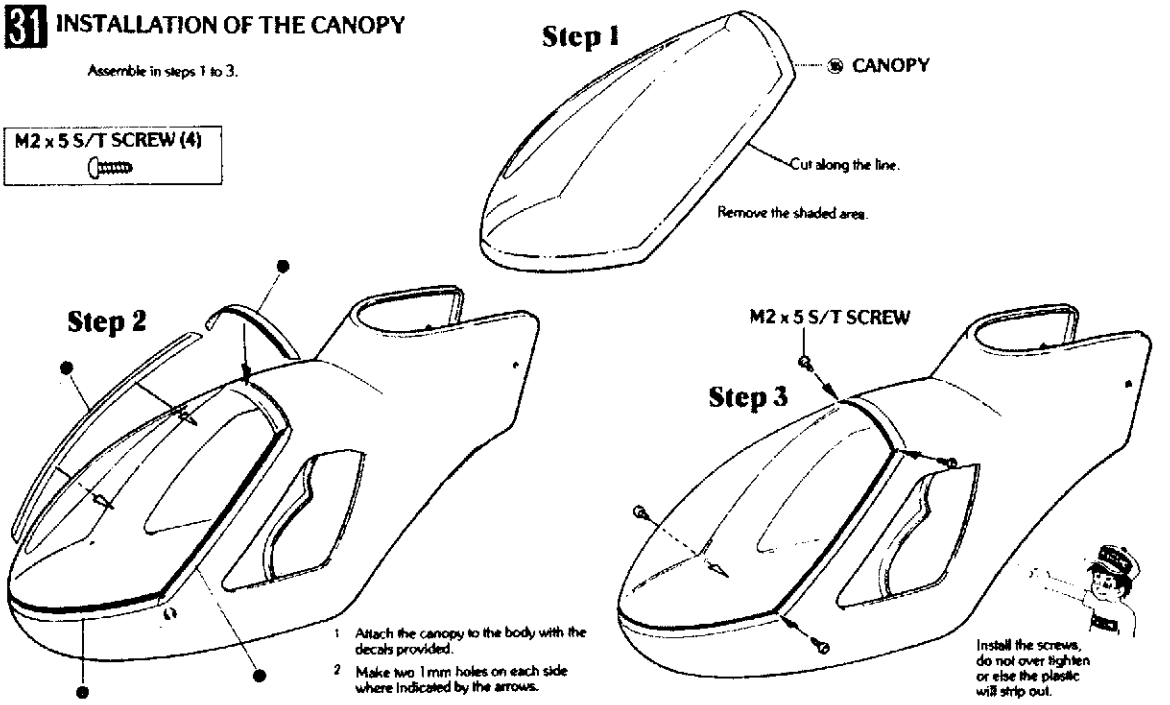
M3 x 8 S/T SCREW (2)



31 INSTALLATION OF THE CANOPY

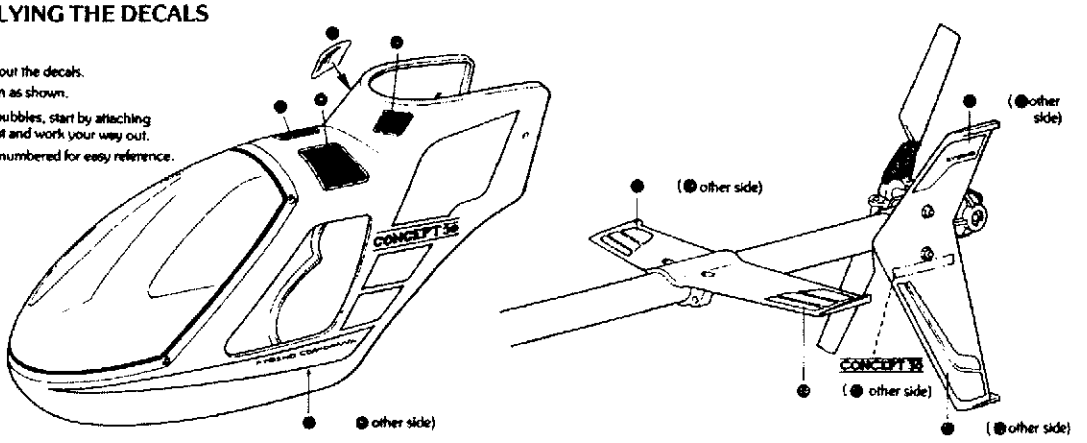
Assemble in steps 1 to 3.

M2 x 5 S/T SCREW (4)

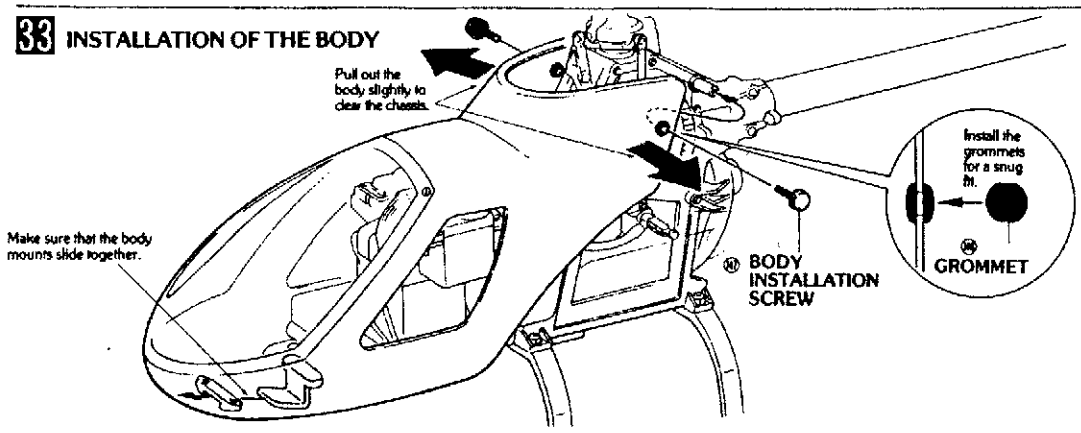


32 APPLYING THE DECALS

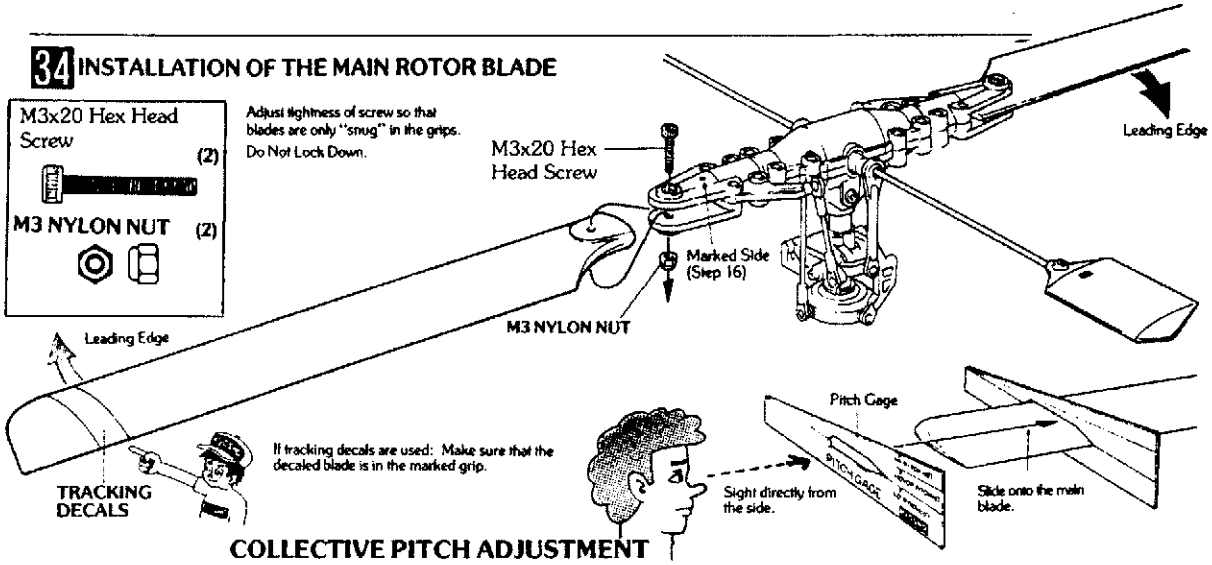
- Carefully cut out the decals.
- Place them on as shown.
- To avoid air bubbles, start by attaching the center first and work your way out.
- All decals are numbered for easy reference.



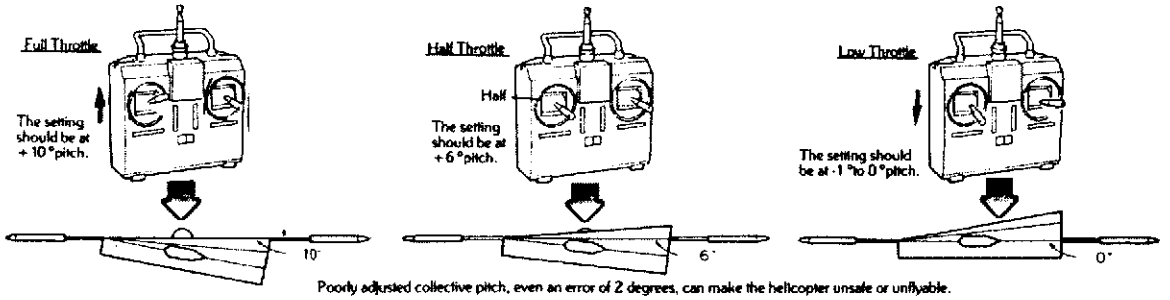
33 INSTALLATION OF THE BODY



34 INSTALLATION OF THE MAIN ROTOR BLADE

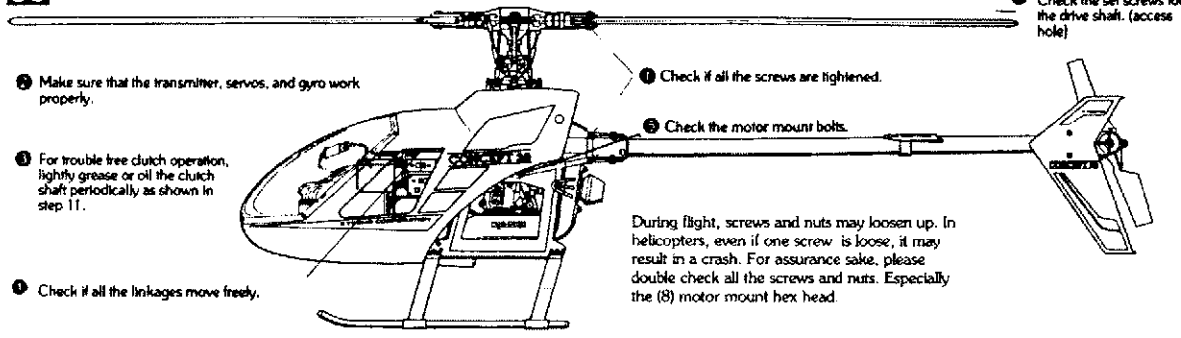


COLLECTIVE PITCH ADJUSTMENT



Poorly adjusted collective pitch, even an error of 2 degrees, can make the helicopter unsafe or unflyable.

35 FINAL ASSEMBLY INSPECTION



❻ Make sure that the transmitter, servos, and gyro work properly.

❼ For trouble free clutch operation, lightly grease or oil the clutch shaft periodically as shown in step 11.

❽ Check if all the linkages move freely.

❶ Check if all the screws are tightened.

❺ Check the motor mount bolts.

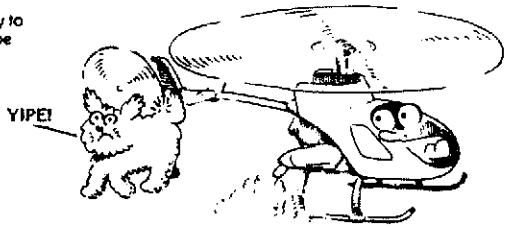
❹ Check the set screws for the drive shaft. (access hole)

During flight, screws and nuts may loosen up. In helicopters, even if one screw is loose, it may result in a crash. For assurance sake, please double check all the screws and nuts. Especially the (8) motor mount hex head.

BEFORE FLYING THE CONCEPT 30

Now that you have completed the assembly of the Concept 30, you are ready to go but please be aware that helicopters fly at very high rotor speeds and can be very dangerous. Stay away from any obstacles and enjoy a safe flight.

(It is not uncommon for the blade tip velocity to be near 150 mph.)



SHORTCUT TO PROFICIENCY

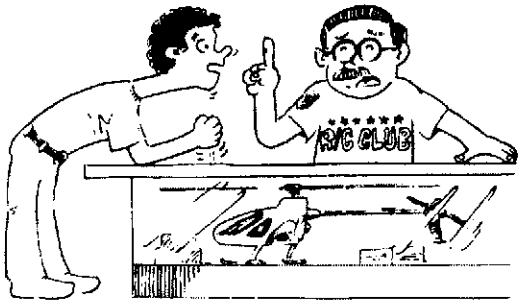
1. Join the flying club.

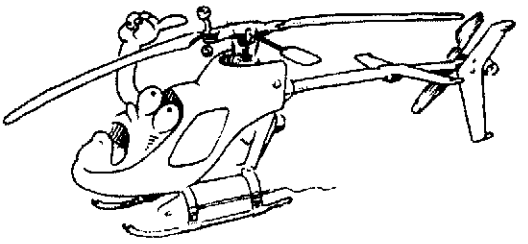
   The quickest way to learn helicopter flight is to join a local flying club that has helicopter experts who can help you with flight training and set up.

2. Join the AMA (Academy of Model Aeronautics), 1810 Samuel Morse Drive, Reston, VA 22090. The AMA can provide assistance in locating an R/C club in your area as well as providing liability insurance coverage.

3. Check the entire Helicopter before each flight.

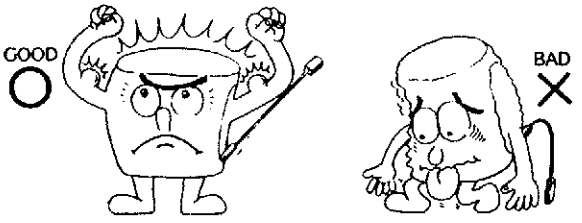
   Double check all the screws and nuts to make sure they are secure.

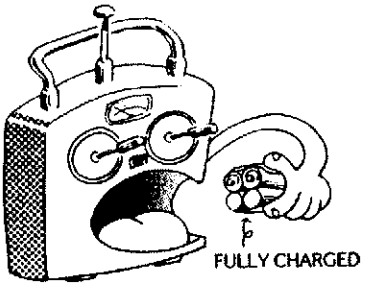




BEFORE GOING TO THE FLYING FIELD

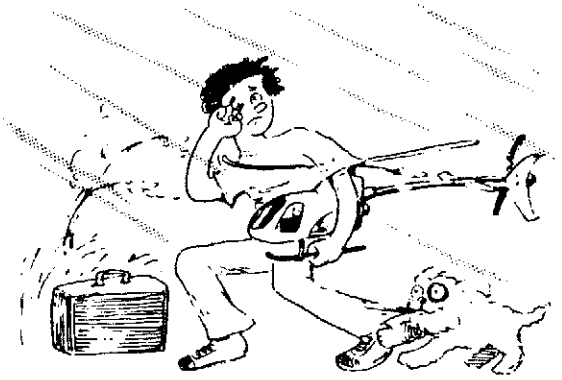
Make sure that the batteries for the transmitter and receiver are both fully charged.



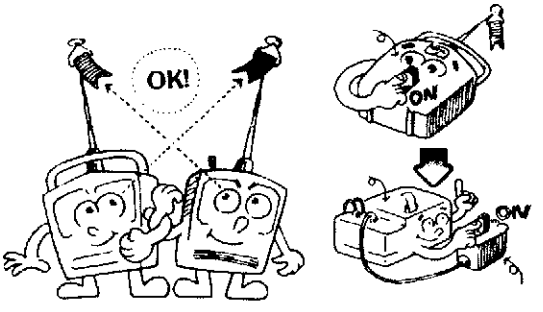


AT THE FLYING FIELD

- If a novice is going to fly, try to avoid strong winds (greater than 10 mph).

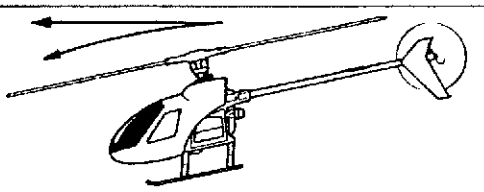
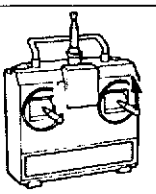
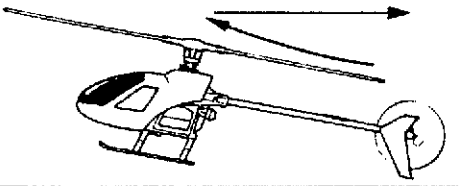
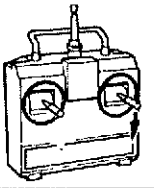
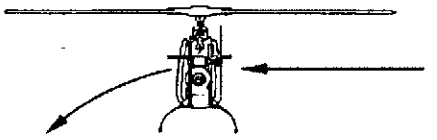
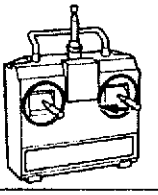
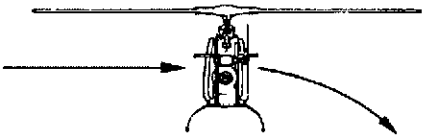
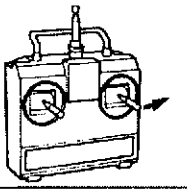
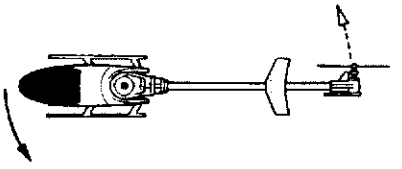
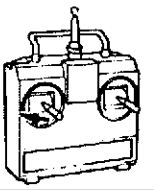
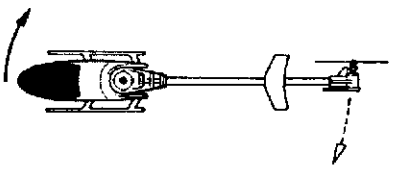
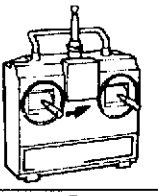
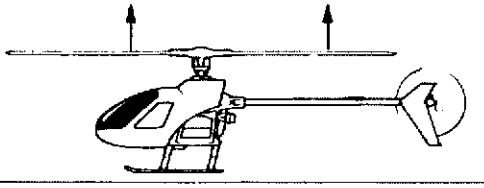
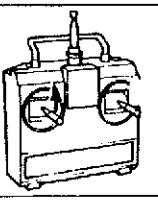
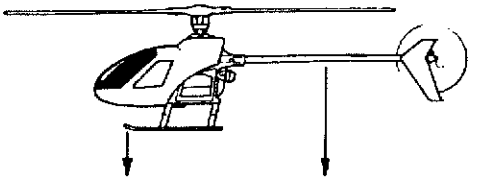
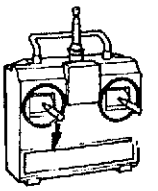


- Confirm that no one else is on your frequency before turning on your radio system.



- Perform a range check according to your radios instruction manual.

CONCEPT 30 CONTROL REACTIONS

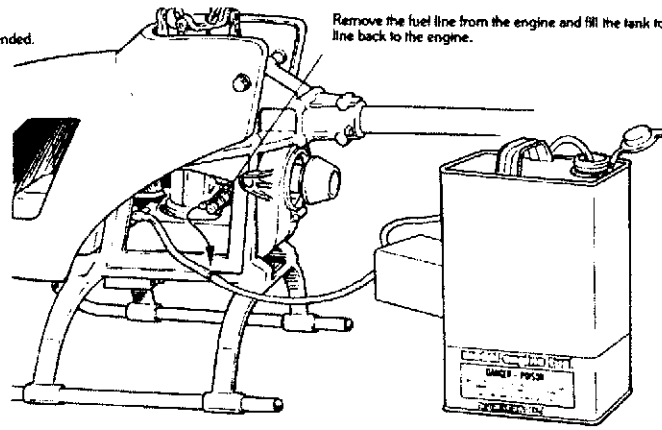
TILTS AND MOVES FORWARD			ELEVATOR STICK PUSHED FORWARD
TILTS AND MOVES BACKWARD			ELEVATOR STICK BACK
TILTS AND MOVES LEFT			AILERON TO THE LEFT
TILTS AND MOVES RIGHT			AILERON TO THE RIGHT
THE NOSE MOVES LEFT. COUNTERCLOCKWISE ROTATION.			RUDDER STICK TO THE LEFT
THE NOSE MOVES RIGHT. CLOCKWISE ROTATION.			RUDDER TO THE RIGHT
AS THE ENGINE'S RPMS INCREASE THE BLADE PITCH ALSO INCREASES AND THE HELICOPTER LIFTS UP.			ENGINE THROTTLE STICK HIGH
AS THE ENGINE'S RPMS DECREASE THE BLADE PITCH DECREASES AND THE HELICOPTER DESCENDS.			ENGINE THROTTLE STICK LOW

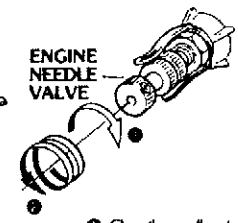
FUELING

A fuel of 10% or 15% nitro is recommended.

Colored helicopter fuel is available.

Remove the fuel line from the engine and fill the tank to the top. Reinstall the fuel line back to the engine.





❶ Close the needle valve all the way.

❷ Then, reopen one and a half turns.

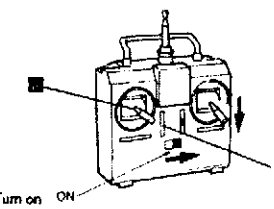
STARTING THE ENGINE

This starting procedure is set up so that the main rotor head will not suddenly turn.
Please follow it carefully.

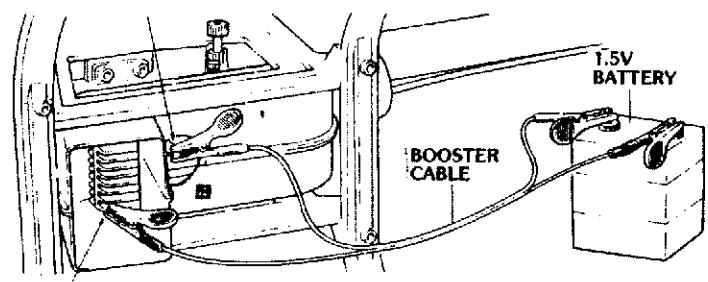
1. Turn on the radio system. (In sequence-transmitter, receiver and gyro).

2. Keep the engine control stick in the low position.

3. Set the engine control trim in the neutral position. Low stick and partial trim will allow the engine to start without engaging the clutch.



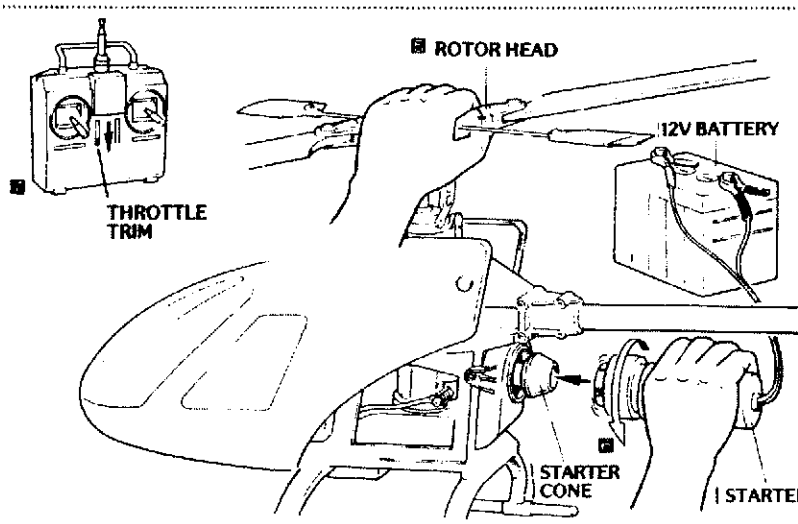
4. Connect a booster cable or glow plug clip to the glow plug and then to a 1.5V battery.



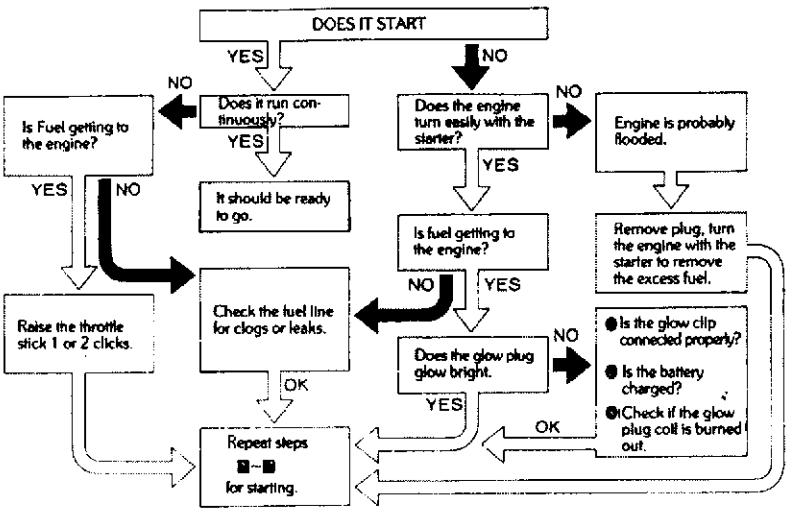
5. Hold the rotor head firmly in your left hand.

6. The starter should turn in the direction of the arrow. If not switch the battery leads. Press the starter against the starter cone and start the engine. Remove when it fires.

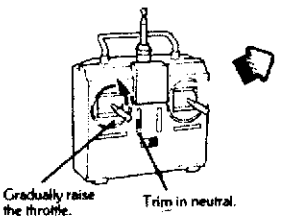
7. When the throttle trim is set low the engine should stop. (See step 13 if it doesn't readjust the linkage). This is an important safety adjustment.



ENGINE TROUBLESHOOTING DIAGRAM



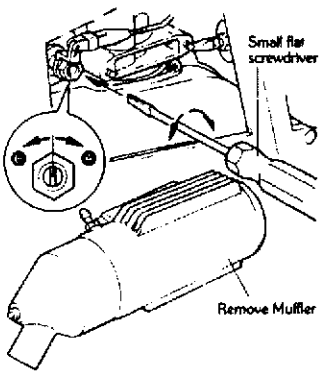
- If the engine does not start check the above chart.
- The engine should start if there is good fuel flow and the plug glows bright.



IDLE SPEED ADJUSTMENT

● If the engine sputters and stops, the idle fuel mixture is to rich. Turn 1/8 turn toward ● (below)

● If the engine stops abruptly with a dry sound, the idle fuel mixture is to lean turn 1/8 turn toward ● (below)

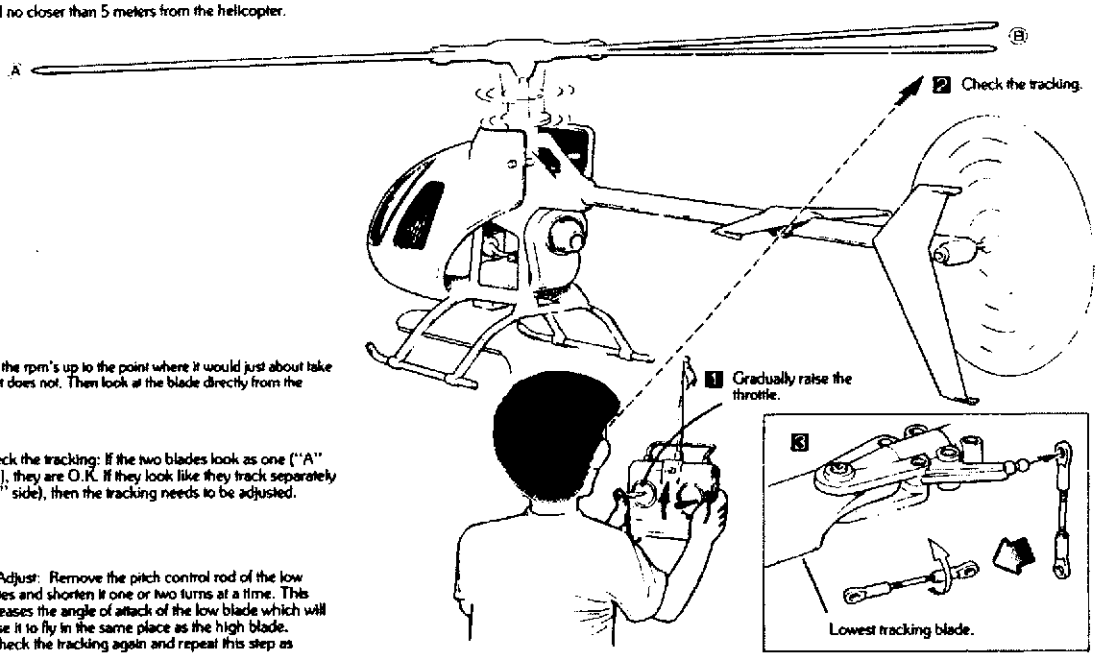


Note: Stop the engine when making adjustment.

FLYING STEP 1: CHECKING THE TRACKING

Adjust the tracking to line up the pitch angles of the main blades.

- Start the engine and set the helicopter on a smooth surface well away from any obstacles (preferably at a flying field).
- Stand no closer than 5 meters from the helicopter.



1 Raise the rpm's up to the point where it would just about take off but does not. Then look at the blade directly from the side.

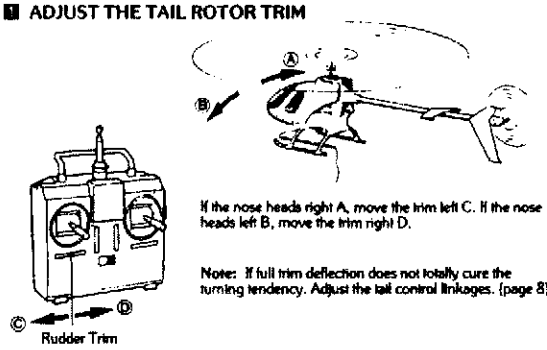
2 Check the tracking: If the two blades look as one ("A" side), they are O.K. If they look like they track separately ("B" side), then the tracking needs to be adjusted.

3 To Adjust: Remove the pitch control rod of the low blades and shorten it one or two turns at a time. This increases the angle of attack of the low blade which will cause it to fly in the same place as the high blade. Recheck the tracking again and repeat this step as necessary.

FLYING STEP 2: ADJUSTING THE TRIM

As the engine speed increases and the helicopter is close to take off, you may notice a tendency for the helicopter to tip or rotate instead of wanting to lift straight up. If this happens, slow the copter and adjust the trim so it lifts straight.

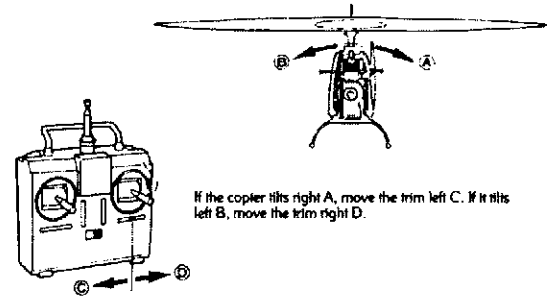
1 ADJUST THE TAIL ROTOR TRIM



If the nose heads right A, move the trim left C. If the nose heads left B, move the trim right D.

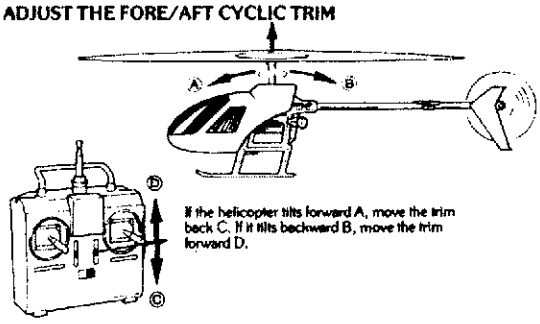
Note: If full trim deflection does not totally cure the turning tendency. Adjust the tail control linkages. (page 8).

2 ADJUST THE LEFT/RIGHT CYCLIC TRIM



If the copter tilts right A, move the trim left C. If it tilts left B, move the trim right D.

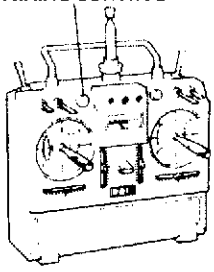
3 ADJUST THE FORE/AFT CYCLIC TRIM



If the helicopter tilts forward A, move the trim back C. If it tilts backward B, move the trim forward D.

4 ADJUST THE THROTTLE/TAIL ROTOR MIXING

MIXING CONTROL

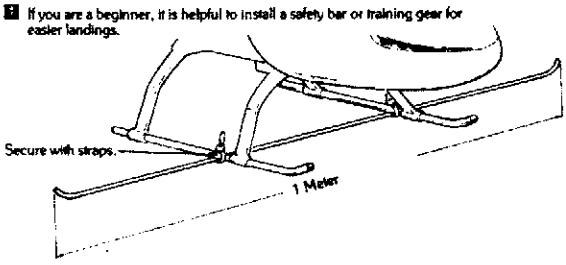


As the helicopter speeds up the reactive torque on the helicopter chassis causes it to rotate. This rotation can be controlled with the throttle/tail rotor (rudder) mixing function. See the manufacturers instructions for proper adjustment.

FLYING STEP 3: BEFORE YOU BEGIN TO HOVER

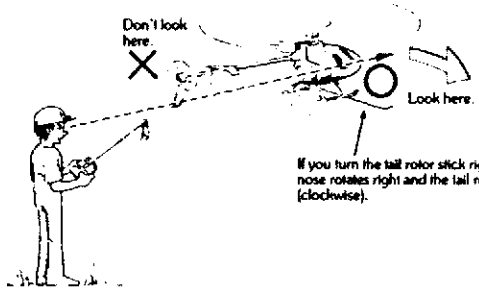
The main fundamental flying technique of a helicopter is hovering. If you cannot hover you will be unable to fly or land. Therefore, spend plenty of time practicing this technique. Before flying observe the following:

1 If you are a beginner, it is helpful to install a safety bar or training gear for easier landings.



2 When your practicing the hover always face the wind. This will keep the tail rotor more stable.

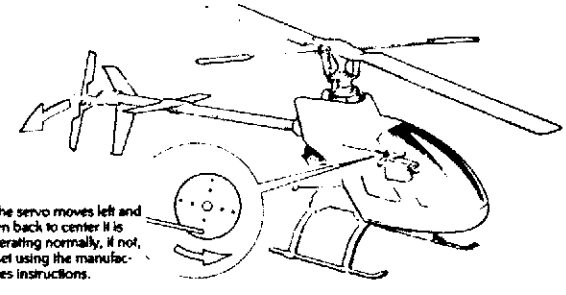
3 When flying, always look at the nose of the helicopter and not the tail because it is the nose that turns in the direction of your command. See below.



If you turn the tail rotor stick right the nose rotates right and the tail rotates left (clockwise).

4 Check the Gyro Direction.

Turn on the transmitter, receiver and gyro. With your hand, quickly move the helicopter in the direction of the arrow and stop. At the same time watch the tail rotor servo.



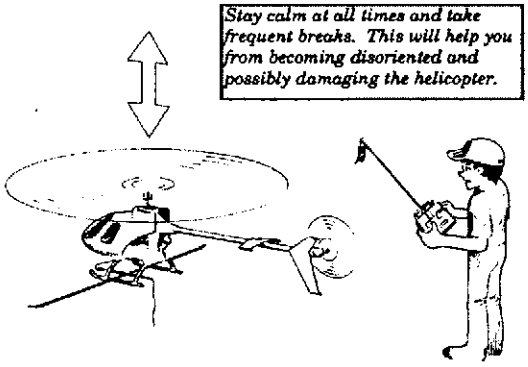
If the servo moves left and then back to center it is operating normally, if not, reset using the manufactures instructions.

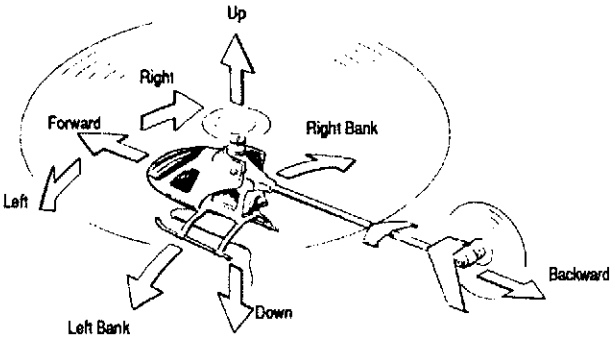
FLYING STEP 4: PRACTICE HOVERING

■ Stand about 5 meters from the helicopter and attempt a smooth lift off up to a height of 3" to 4" and then slow the engine, and carefully land the helicopter. Repeat this process until you can smoothly take off and land consistently. Then practice raising the helicopter higher.

■ A hovering helicopter will never stay in one spot by itself. You must constantly "read" which direction the helicopter will want to drift and move the control sticks on the transmitter so that the helicopter will stay stationary. Try not to go to high until you can keep the helicopter stationary.

Stay calm at all times and take frequent breaks. This will help you from becoming disoriented and possibly damaging the helicopter.



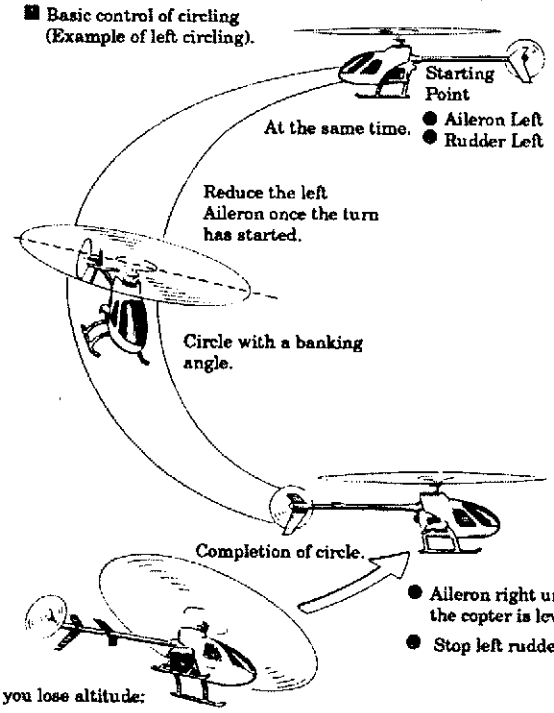


Once hovering is mastered you will have learned the most important and most common flight technique.

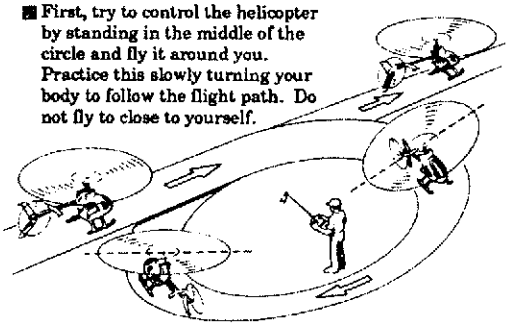
FLYING STEP 5: FLYING CIRCLE

After you have mastered hovering, you may try flying a circle around yourself slowly trying to keep the nose facing the direction of the flight. At slow speed you should be able to clearly see the flight attitude of the helicopter. Always keep the tail facing away from you until you are competent at flying "Nose In". *To learn "Nose In" hovering, go back to step 4, Practice Hovering" and point the nose towards you. Take your time and be extra careful when attempting this difficult maneuver.*

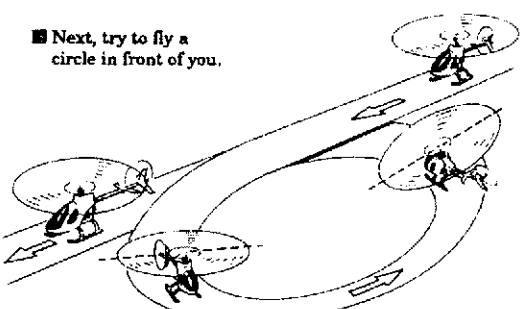
■ Basic control of circling (Example of left circling).



■ First, try to control the helicopter by standing in the middle of the circle and fly it around you. Practice this slowly turning your body to follow the flight path. Do not fly to close to yourself.



■ Next, try to fly a circle in front of you.



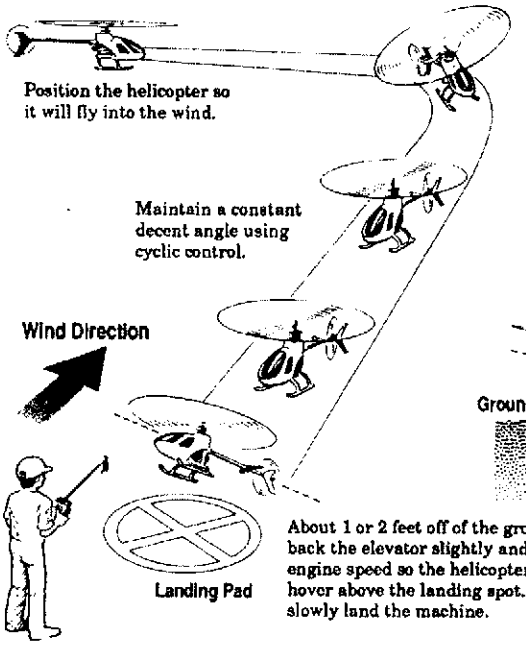
If you lose altitude:

- Slowly raise the engine speed enough to maintain level flight.
- Give slight backward cyclic (elevator)
- Doing one or both of these should raise the height.

FLYING STEP 6: LANDING

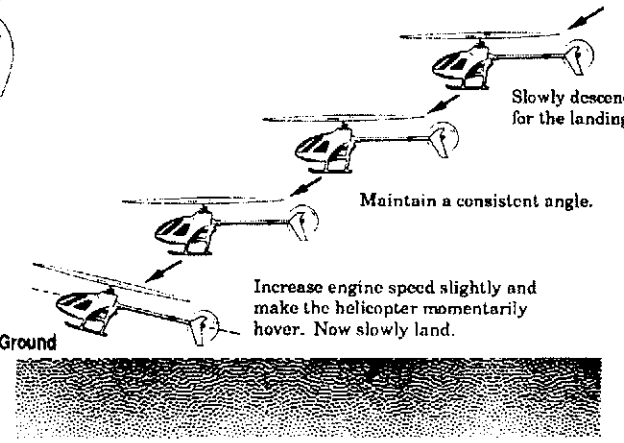
Landing is performed by flying into the wind and gradually guiding the helicopter towards the landing spot. Once you have started forward flight, the most common mistake is forgetting that you must return to hovering before landing. Landing requires more power as you near the ground.

■ Basic landing control



About 1 or 2 feet off of the ground, pull back the elevator slightly and raise the engine speed so the helicopter will hover above the landing spot. Then slowly land the machine.

■ Landing approach angle.



In order to perform a smooth decent, very delicate engine speed changes are necessary. Practice landings until you can do them well.

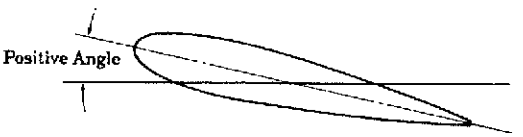
FLYING STEP 7: AUTO-ROTATION

The Concept 30 is equipped with auto rotation system to minimize the damage of the helicopter in case the engine should stop during flight. Control can be retained by using the Autorotation technique.

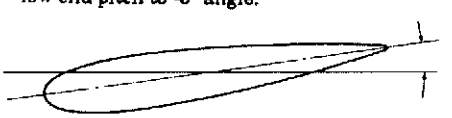
AUTO ROTATION

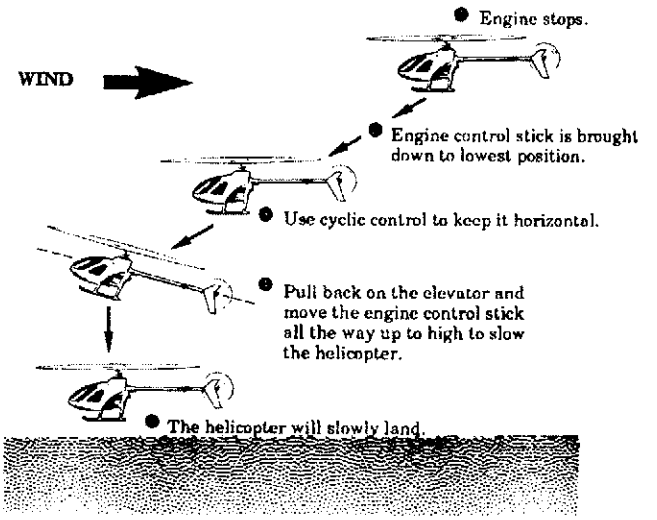
By making the main rotor pitch negative at low throttle, if the engine quits, the blades would continue to spin as the helicopter descends. Just before touching the ground the engine control is moved to the high position to slow the helicopter so it can land safely. It is most important to become familiar with the "Throttle Hold" switch on your transmitter. Experiment and prepair yourself by turning this switch ON and OFF while the helicopter is on the ground.

- For normal flights the pitch is positive.



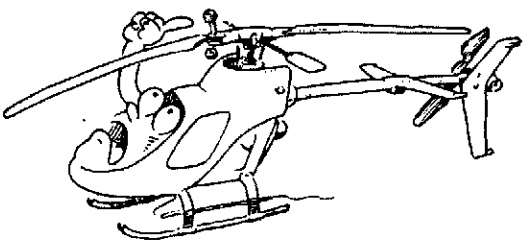
- For auto rotation capabilities set the low end pitch to -5° angle.



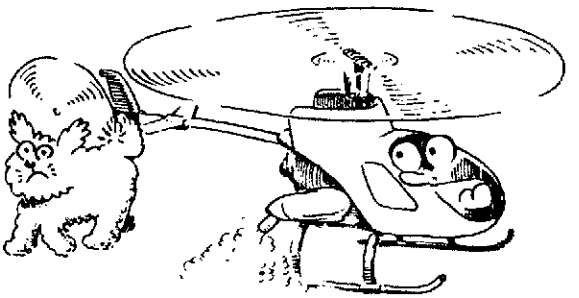


FOR SAFE FLIGHTS ALWAYS OBSERVE THE FOLLOWING

■ Check that there are no loose nuts and screws.

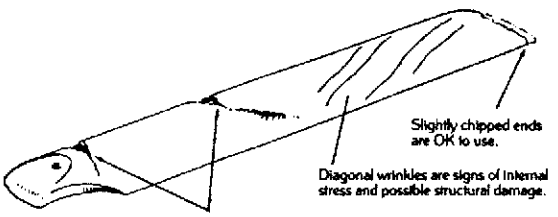


■ Keep away from any obstacles.



■ Do not use damaged blades.

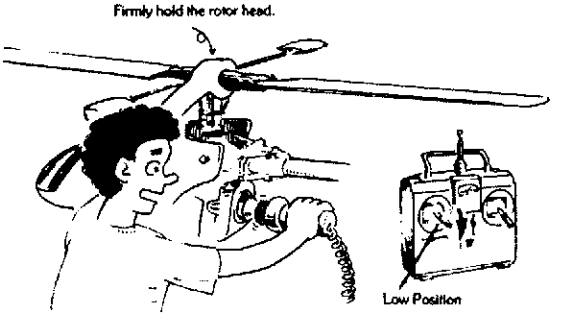
Main rotor blades that may have cracked when flying should be replaced.



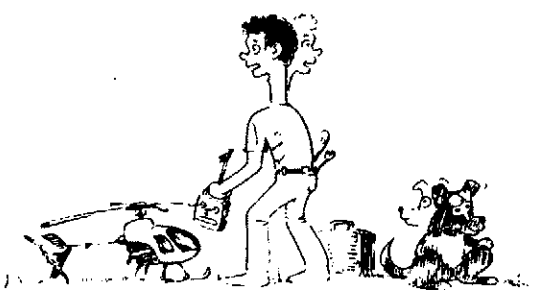
Do not use blades with cracks or wrinkles on the surface.

■ Use caution when starting the engine.

Firmly hold the rotor head.

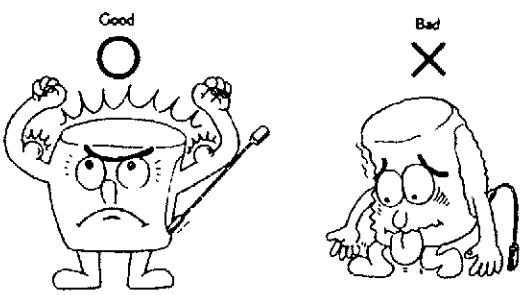


■ Check the flying field over before flying to locate any hazards



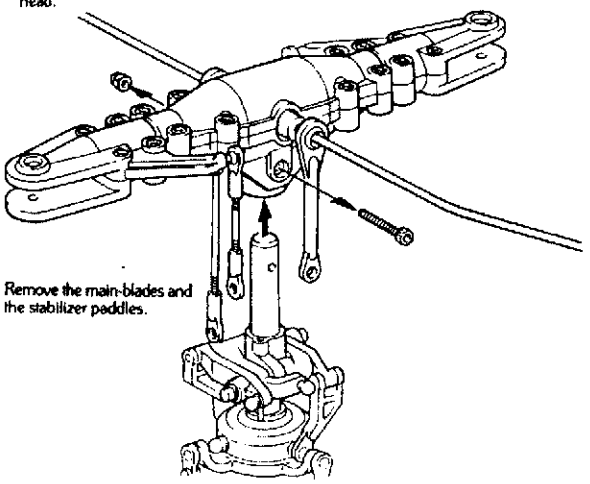
■ Be sure the batteries are fully charged.

If your gyro is connected to the receiver battery, no more than two flights are recommended for a 500 mAh battery and no more than four flights for a 1000 mAh battery.



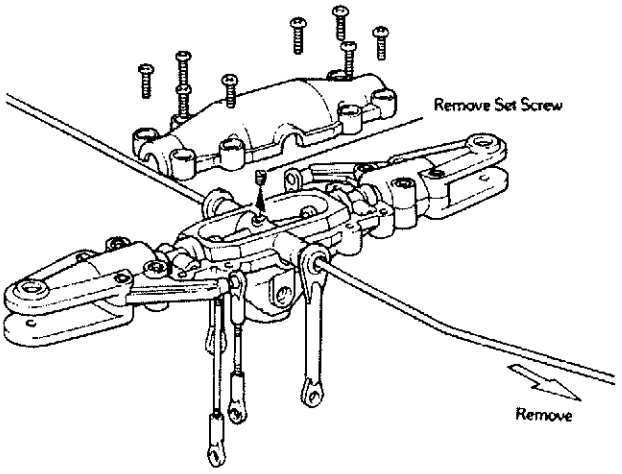
REPLACEMENT OF THE STABILIZER BAR (FLYBAR)

1 Disconnect the linkages and remove the rotor head.

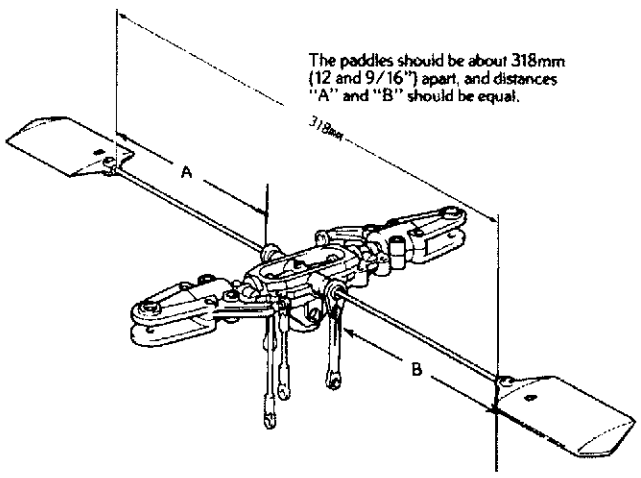


2 First remove the top cover and then the set screw. Next, pull the bar out.

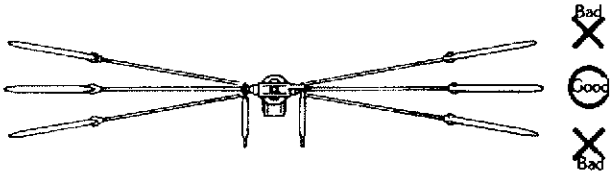
If you have drilled a hole in the rotor head (step 6) you do not have to remove the rotor head.



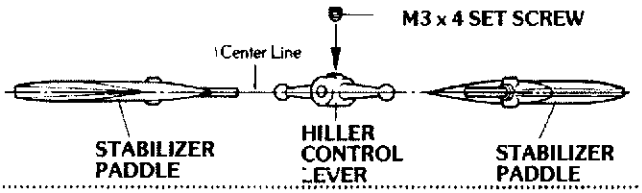
3 Insert the new stabilizer bar and reinstall the stabilizer paddles.



4 Slide the bar so that the head is balanced.

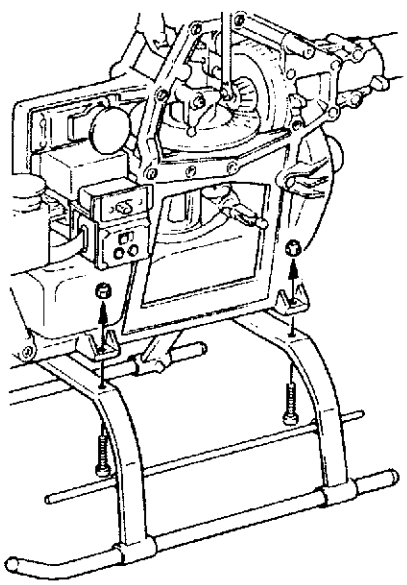


Tighten the Set Screw

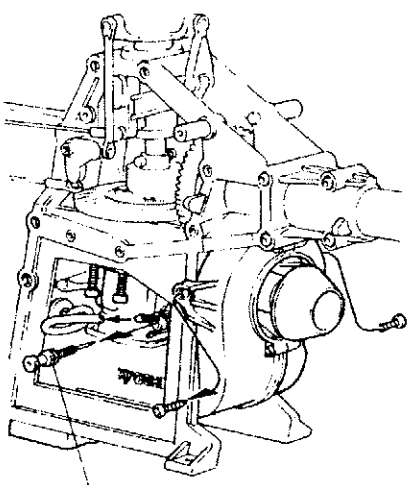


REMOVING THE ENGINE (INSTALL IN THE REVERSE ORDER)

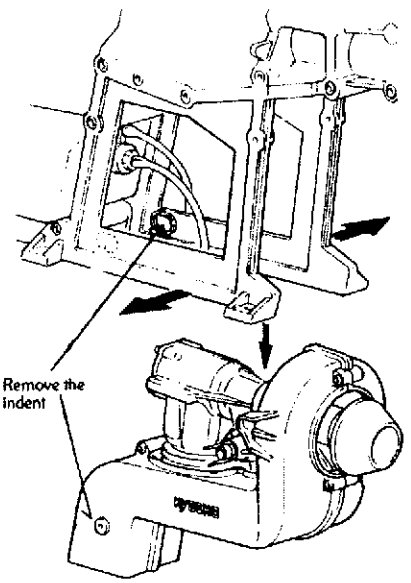
1 Remove the landing skids.



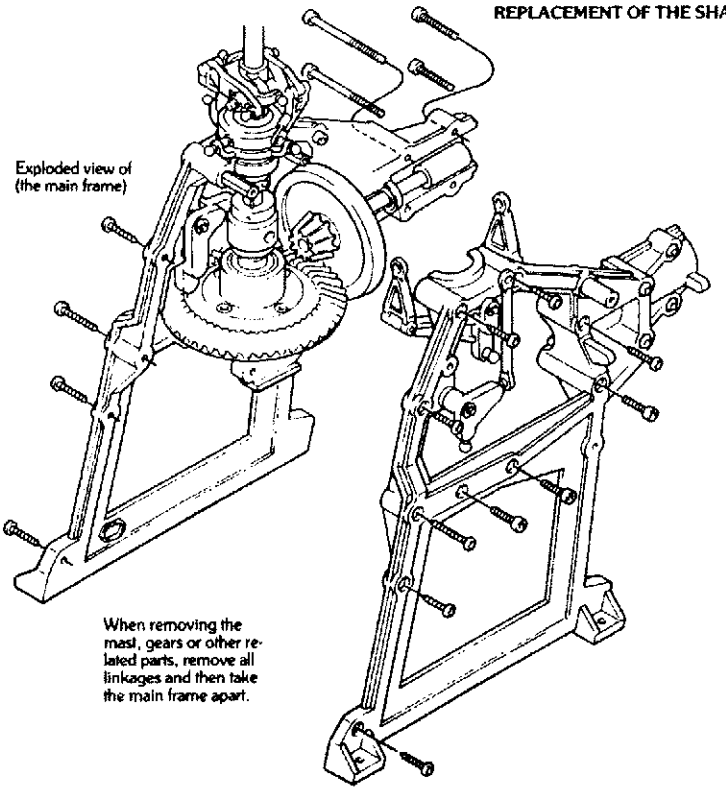
2 Next, remove the muffler, fuel line, linkage rod, and the needle valve. Then remove the engine mounting and shroud screws.



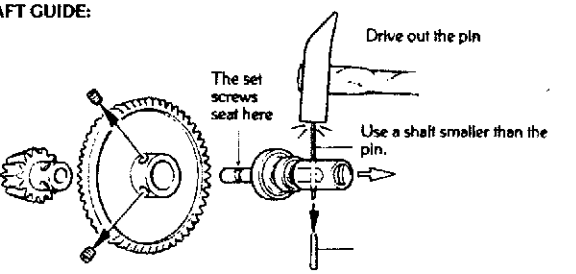
3 Spread the lower frame outward, lower the engine together with the fan shroud.



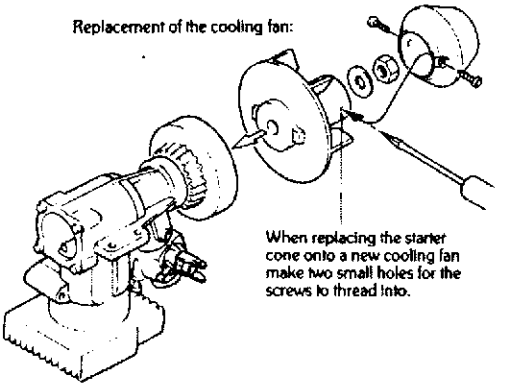
REPLACEMENT OF THE SHAFT GUIDE:



When removing the mast, gears or other related parts, remove all linkages and then take the main frame apart.

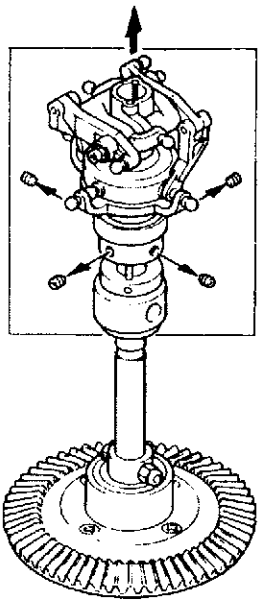


Replacement of the cooling fan:



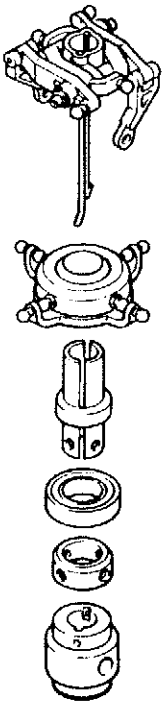
When replacing the starter cone onto a new cooling fan make two small holes for the screws to thread into.

DISASSEMBLING THE SWASHPLATE

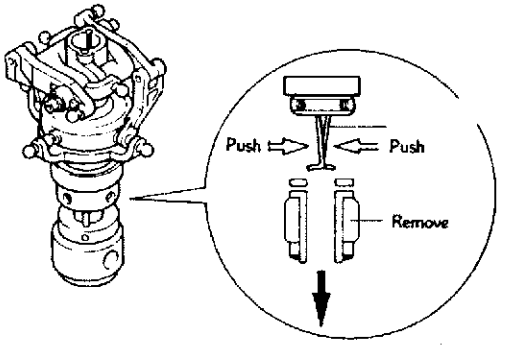


1 Remove the 4 set screws and pull the assembly off the mast.

3 Disassembled Parts

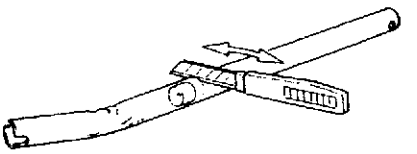


2 Push in the wire rods and remove the parts as shown.

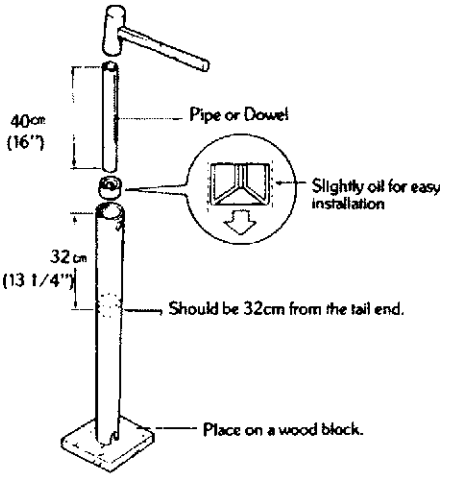


REPLACEMENT OF THE DRIVE SHAFT GUIDE.

1 Cut the boom on both sides of the guide and then carefully tap it out with a hammer and dowel rod (or pipe).



2 To insert, drive the guide in its proper direction using a short pipe or dowel.



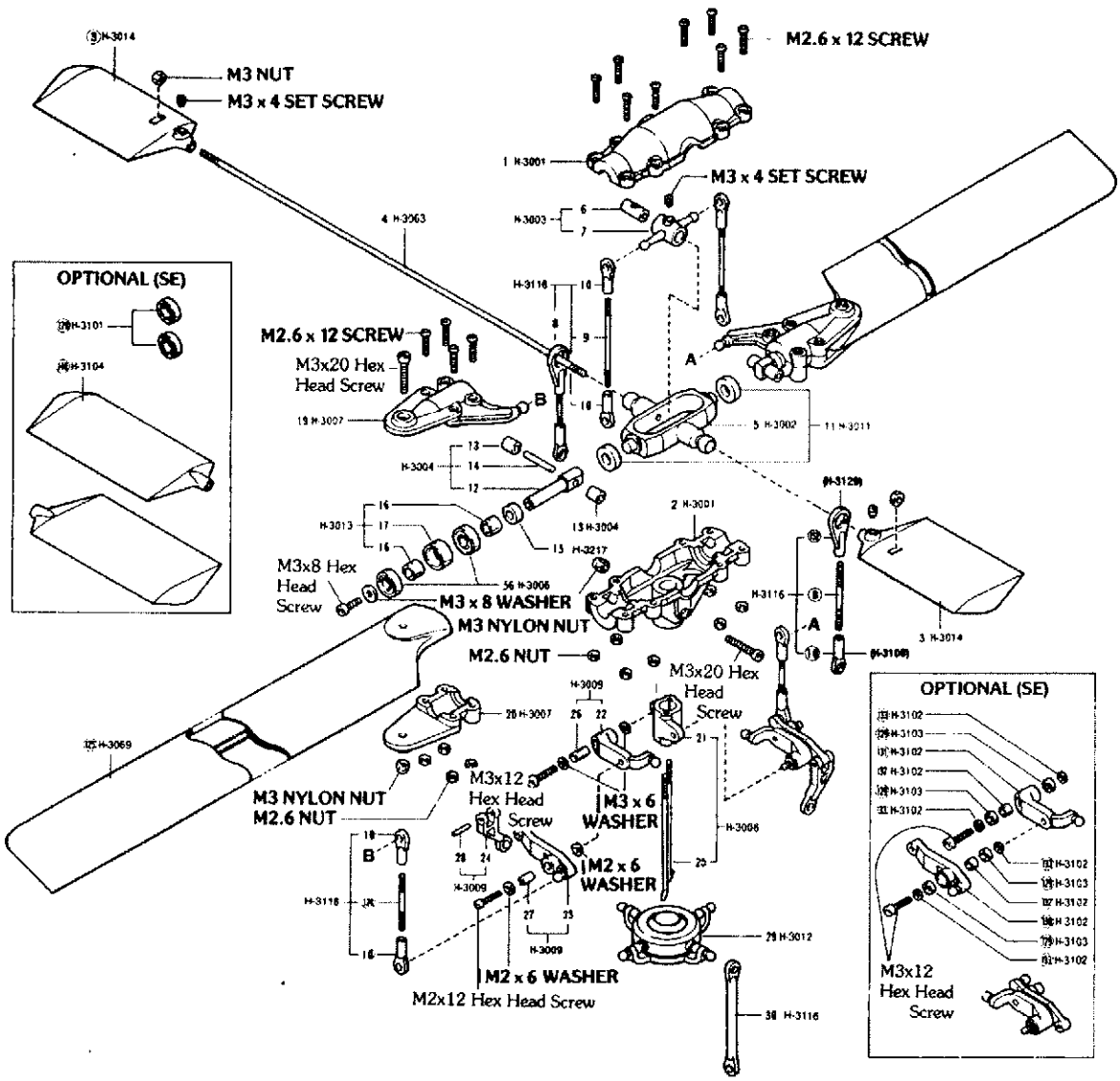
CONCEPT 30 PARTS LIST

Key—No.	Qty.
① Rotor Head (B)	1
② Rotor Head (A)	1
③ Stabilizer Paddles	2
④ Flybar	1
⑤ Stabilizer Seesaw	1
⑥ Control Lever Bushing	1
⑦ Hiller Control Lever	1
⑧ Stabilizer Control Rod	2
⑨ Flybar Control Rod	2
⑩ Ball End	11
⑪ See-Saw Bushing	2
⑫ Feathering Shaft	2
⑬ Flapping Hinge Bushing	4
⑭ Flapping Pin (3mm x 18)	2
⑮ Flapping Damper	2
⑯ BRG Spacer	4
⑰ Grip Spacer	2
⑱ 1060 Bearing	1
⑲ Main Rotor Grip (A)	2
⑳ Main Rotor Grip (B)	2
㉑ Mixing Base	1
㉒ Mixing Lever	2
㉓ Cyclic Lever	2
㉔ Cyclic Lever Link	2
㉕ Pitch Rod	2
㉖ Mixing Lever Bushing	2
㉗ Lever Bushing (A)	3
㉘ Cyclic Pin (2mm x 10)	2
㉙ Swash Plate Assembly	1
㉚ Aileron Link Rod	1
㉛ Elevator Link Rod	2
㉜ Elevator Lever	1
㉝ Lever Pin	2
㉞ Fore-aft Cyclic Control Rod	1
㉟ Left-Right Cyclic/Throttle Control Rod	2
㊱ Aileron Lever	1
㊲ Lever Bushing(B)	1
㊳ Mast	1
㊴ Pitch Rod Guide	1
㊵ 6801 Bearing	1
㊶ Mast Stopper	1
㊷ Pitch Slider	1
㊸ Pitch Slide Link	1
㊹ Pitch Slide Thrust Washer	1
㊺ Stopper Ring	1
㊻ One Way Shaft	1
㊼ Main Gear	1
㊽ One Way Housing	1
㊾ 1680 Bearing	1
㊿ Engine Mount	1
(51) Main Frame (L)	1

Key—No.	Qty.
(52) Main Frame (R)	1
(53) Bevel Pinion	1
(54) Counter Gear	1
(55) Secondary Shaft	1
(56) 1350 Bearing	5
(57) Tail Drive Coupling	1
(58) 2 x 10mm Drive Pin	1
(59) 2 x 14mm Link Pin	2
(60) Threaded Insert (S)	3
(61) Threaded Insert (L)	1
(62) Starter Cone	1
(63) Cooling Fan	1
(64) Instruction Manual	1
(65) Clutch	1
(66) Drive Gear/Clutch Bell	1
(67) Fan Shroud (R)	1
(68) Fan Shroud (L)	1
(69) Tail Drive Shaft	1
(70) Tail Boom	1
(71) Shaft Guide	1
(72) Stabilizer Fin	1
(73) Bracket	1
(74) Vertical Fin	1
(75) Tail Drive Joint	1
(76) 1480 Bearing	2
(77) Tail Input Gear	1
(78) Tail Output Gear	1
(79) 2mm x 12mm Gear Pin	1
(80) Tail Gear Box (R)	1
(81) Tail Gear Box (L)	1
(82) Tail Output Shaft	1
(83) 1050 Bearing	2
(84) Tail Shaft Thrust Collar	1
(85) Tail Pitch Lever	1
(86) Tail Pitch Ring	1
(87) Tail Pitch Ring Pin	1
(88) 1060 Bearing	2
(89) Tail PC Plate	1
(90) Ball End (S)	2
(91) Slide Bushing	1
(92) Pitch Ring Nut	1
(93) Rubber Band	1
(94) Body Mount	2
(95) Sub Frame	1
(96) Servo Mounting Plates	10
(97) Wire Holder	2
(98) Front Frame Retainer	2
(99) Front Frame	1
(100) Brace	2
(101) Skid	2
(102) Skid Cap	4

Key—No.	Qty.
(103) Antenna Tube	1
(104) Body	1
(105) Canopy	1
(106) Switch Mount	1
(107) Body Mount (A)	1
(108) Body Mount (B)	1
(109) Tank	1
(110) Tank Weight	1
(111) Tank Adapter	1
(112) Tank Cap	1
(113) Seal Washer	1
(114) Seal Nut	1
(115) Silicon Tube (small)	1
(116) Silicon Tube (large)	1
(117) Tail Control Guide	1
(118) Tail Control Rod	1
(119) Ball Link	1
(120) Tail Control Link	1
(121) Control Rod (Tail)	1
(122) Control Rod (Throttle)	1
(123) Control Rod (Pitch)	1
(124) Pitch Control Rod	2
(125) Main Rotor Blade	2
(126) Clevis	1
(127) Pitch Lever	1
(128) 6 x 12mm Bearing (SE)	2
(129) 3 x 16mm Bearing (SE)	8
(130) Mixing Lever (SE)	2
(131) Cyclic Lever (SE)	2
(132) Bearing Collar (SE)	4
(133) Bearing Washer (SE)	8
(134) Pitch Slider (SE)	1
(135) Pitch Slider Ring (SE)	1
(136) Slide Ring Nut (SE)	1
(137) A-1510 Bearing (SE)	2
(138) Shaft Guide (SE)	1
(139) 3 x 6mm Bearing (SE)	1
(140) Tail Center Hub	1
(141) M3 x 14 Threaded Rod	2
(142) Thrust Bearing	2
(143) Tail Grip (B)	2
(144) Tail Grip (A)	2
(145) Tail Blade	2
(146) Grommet	2
(147) Body Installation Screw	2
(148) Stabilizer Paddle (SE)	2
(149) Decal	1
(150) Mast Stopper Ring	1
(151) Double Sided Tape	1
(152) Ball End (Large)	2
(153) Clutch Liner	1

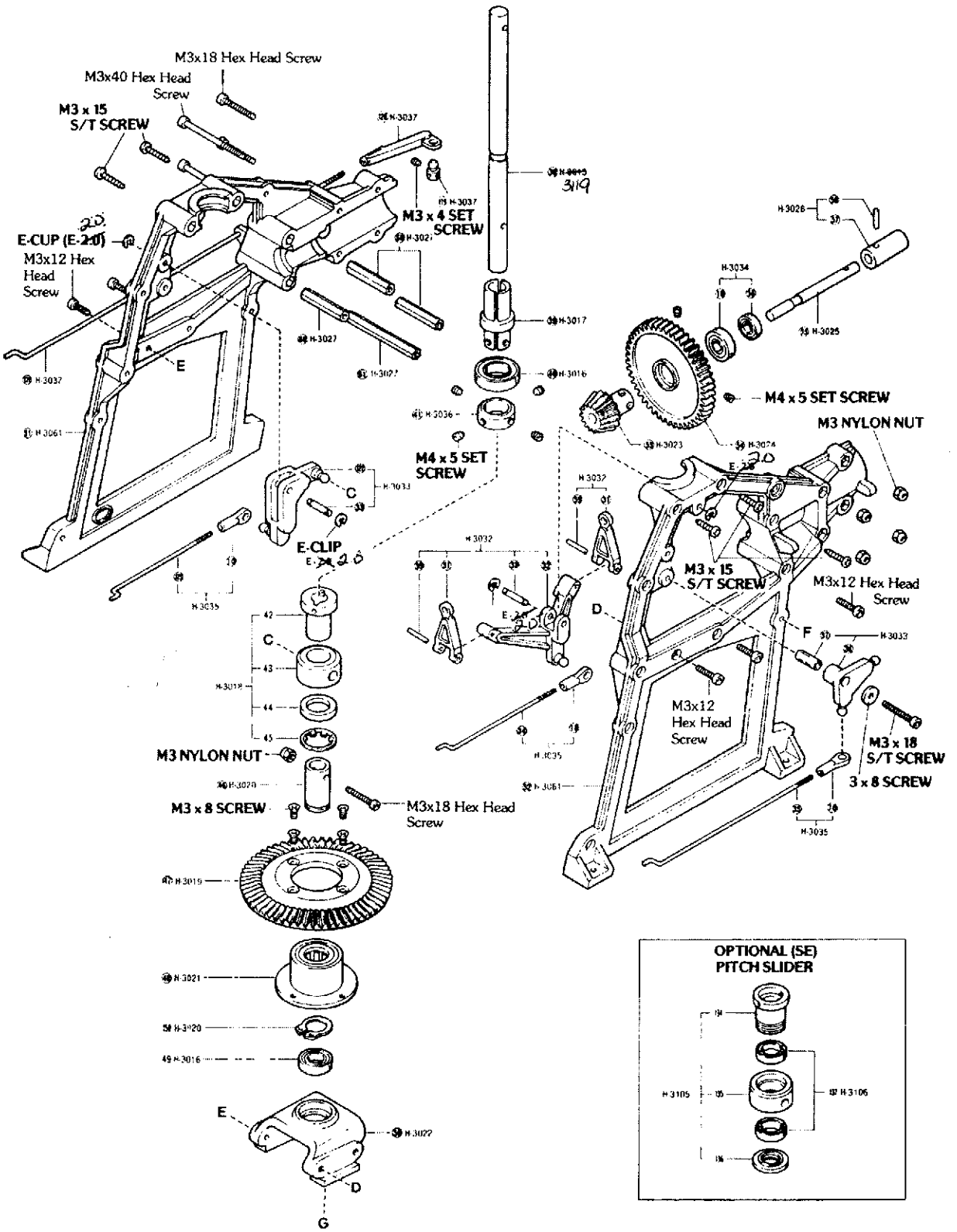
EXPLODED PARTS DIAGRAM



Stock #	Parts Pack	Description	Contains
KYOE1010	H-3001	Rotor Head	(1) (2) x1
KYOE1020	H-3002	See-Saw	(5) x1
KYOE1030	H-3003	Hiller Control Set	(6) (7) x1
KYOE1040	H-3004	Feathering Shaft Set	(12) (14) x2 (13) x4
KYOE5015	H-3217	Hard Dampers Red	(15) x10
KYOE1060	H-6006	5x13x4mm Bearing	(56) x2
KYOE1070	H-3007	Main Rotor Grip	(19) (20) x2
KYOE1080	H-3008	Mixing Base	(21) x1 (25) x2
KYOE1090	H-3009	Mixing Lever Set (DX)	(22) (23) (24) (26) (27) (28) x2

Stock #	Parts Pack	Description	Contains
KYOE6140	H-3116	Linkage Set (A)	(30) x1 (8) (9) (124) x2 (10) x8
KYOE1110	H-3011	Stabilizer See-Saw Bushing	(11) x2
KYOE1120	H-3012	Swash Plate Assembly	(29) x1
KYOE1130	H-3013	Grip Spacer Set	(17) x2 (16) x4
KYOE1140	H-3014	Stabilizer Paddle	(3) x2
KYOE1150	H-3063	Stabilizer Bar	(4) x2
KYOE1160	H-3069	Main Rotor Blade	(125) x2
KYOE5060	H-3109	Cyclic Lever	(24) x2
KYOE6270	H-3129	Ball End (Large)	(152) x6

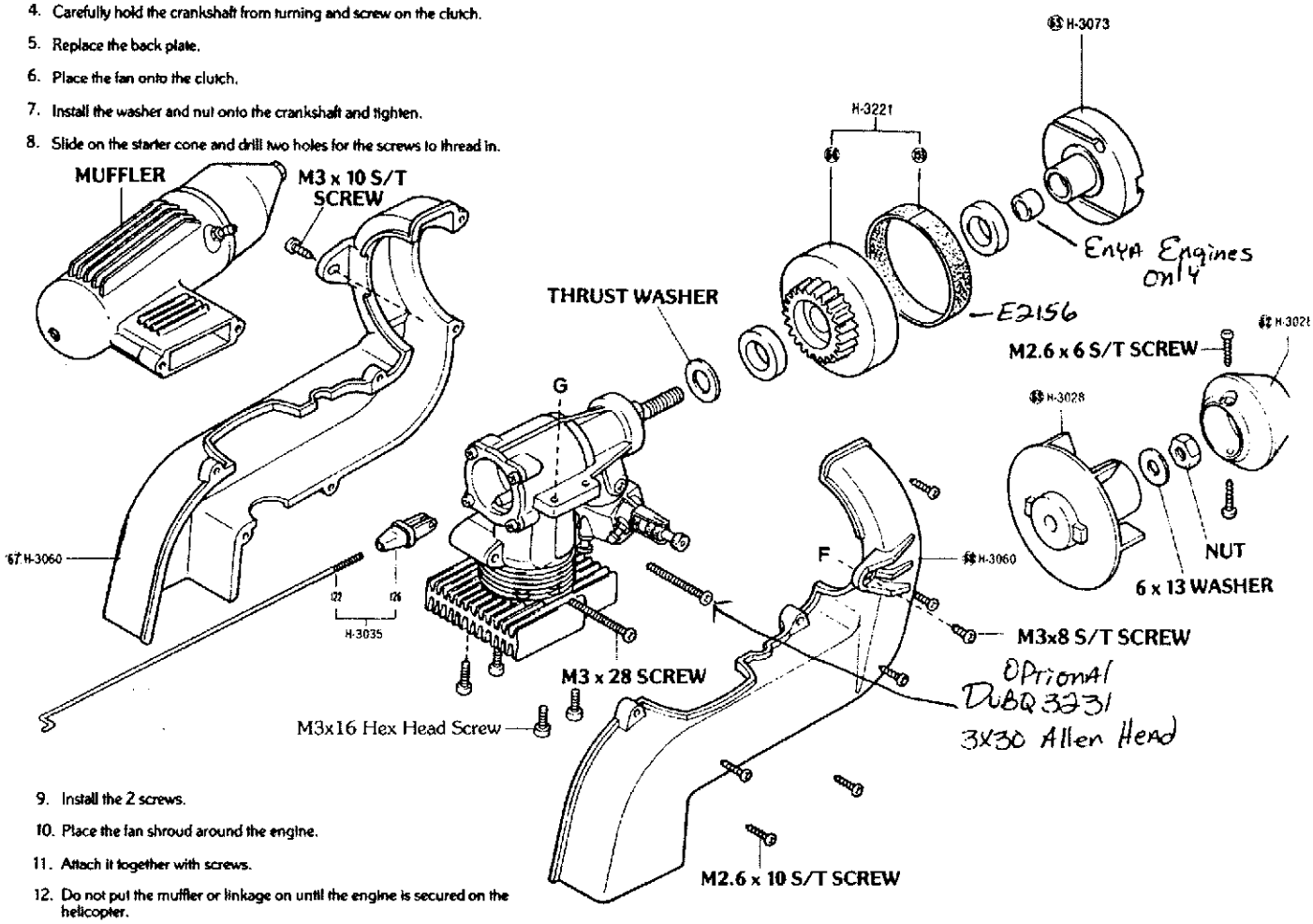
EXPLODED PARTS DIAGRAM



EXPLODED PARTS DIAGRAM

ENGINE INSTALLATION:

1. Remove the engines back plate.
2. Put the thrust washer and drive gear onto the crankshaft.
3. Grease the bearing surface of the clutch liberally.) (For trouble free operation, periodically grease the clutch where shown.)
4. Carefully hold the crankshaft from turning and screw on the clutch.
5. Replace the back plate.
6. Place the fan onto the clutch.
7. Install the washer and nut onto the crankshaft and tighten.
8. Slide on the starter cone and drill two holes for the screws to thread in.



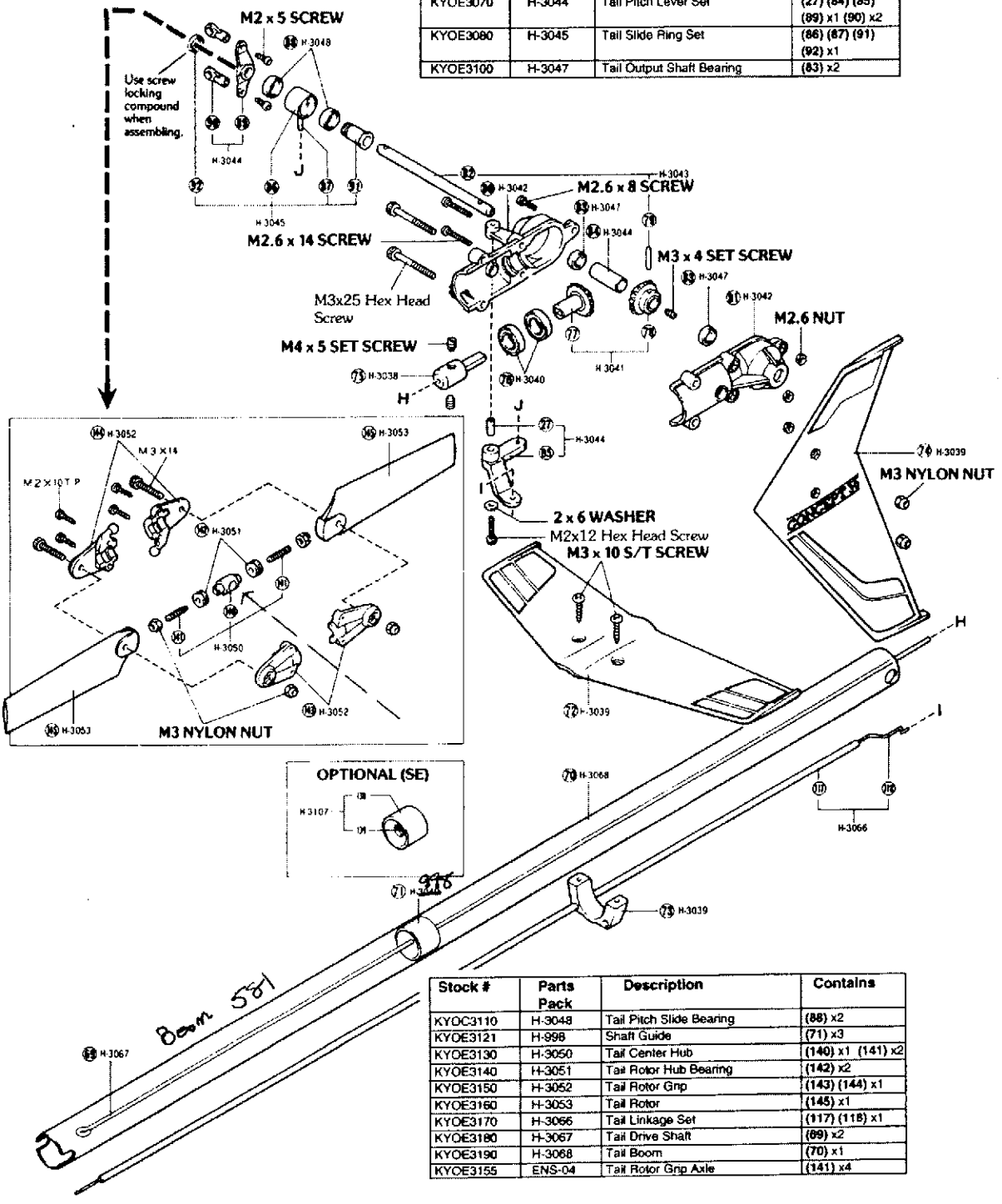
9. Install the 2 screws.
10. Place the fan shroud around the engine.
11. Attach it together with screws.
12. Do not put the muffler or linkage on until the engine is secured on the helicopter.

Stock #	Parts Pack	Description	Contains
KYOE6170	H-3119	Main Mast	(38) x1
KYOE2020	H-3016	Main Mast Bearing	(40) (49) x1
KYOE2030	H-3017	Pitch Rod Guide	(39) x1
KYOE2040	H-3018	Pitch Slider Set	(42) (43) (44) (45) x1
KYOE2050	H-3019	Main Gear	(47) x1
KYOE2060	H-3020	One-Way Shaft	(46) x1
KYOE2070	H-3021	One-Way Housing	(48) x1
KYOE2080	H-3022	Engine Mount	(50) x1
KYOE2090	H-3023	Bevel Pinion Gear	(53) x1
KYOE2100	H-3024	Counter Gear	(54) x1
KYOE2110	H-3025	Secondary Shaft	(55) x1
KYOE2120	H-3026	Tail Drive Coupling	(57) (58) x1
KYOE2130	H-3027	Threaded Inserts	(61) x1 (60) x3
KYOE2140	H-3028	Starter Cone Set	(62) (63) x1
KYOE2155	H-3073	One Piece Clutch	(227) x1
KYOE5042	H-3221	Drive Gear	(66) (153) x1

Stock #	Parts Pack	Description	Contains
KYOE2180	H-3032	Elevater Lever Set	(32) (33) (212) x1 (59) x2
KYOE6180	H-3120	Aileron Pitch Lever Set	(32) (33) x1 (31) (59) x2
KYOE2200	H-3034	Secondary Shaft Bearing	(18) (56) x1
KYOE2210	H-3035	Linkage Set (B)	(34) (35) (122) (123) (126) x1 (10) x3
KYOE2220	H-3036	Mast Stopper	(41) x1
KYOE2230	H-3037	Rudder Linkage Rod	(119) (120) (121) x1
KYOE2240	H-3060	Fan Shroud	(67) (68) x1
KYOE2250	H-3061	Main Frame	(51) (52) x1
KYOE5070	H-3110	Elevator Link Rod	(31) x2
OSMG9012		Metal Throttle Lever	
KYOE2156	H-997	Clutch Liner	(153) x3

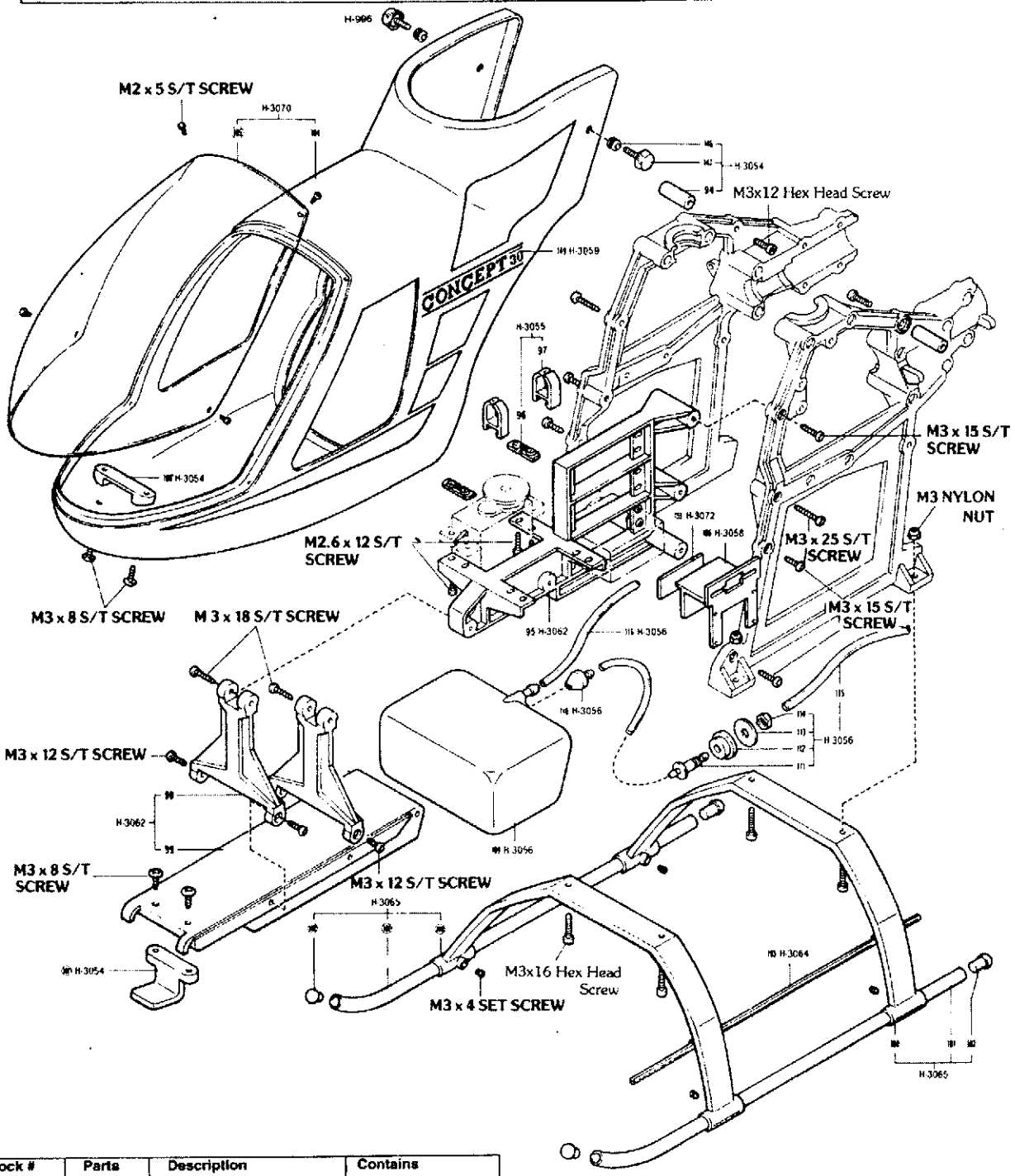
EXPLODED PARTS DIAGRAM

Stock #	Parts Pack	Description	Contains
KYOE3010	H-3038	Tail Drive Joint	(75) x1
KYOE3020	H-3039	Tail Wing Set	(72) (73) (74) x1
KYOE3030	H-3040	8mmx14mm Bearing	(76) x2
KYOE3040	H-3041	Tail Gear Set	(77) (78) x1
KYOE3050	H-3042	Tail Gear Case	(80) (81 x1
KYOE3060	H-3043	Tail Output Shaft	(79) (82) x1
KYOE3070	H-3044	Tail Pitch Lever Set	(27) (84) (85) (89) x1 (90) x2
KYOE3080	H-3045	Tail Slide Ring Set	(86) (87) (91) (92) x1
KYOE3100	H-3047	Tail Output Shaft Bearing	(83) x2



Stock #	Parts Pack	Description	Contains
KYOC3110	H-3048	Tail Pitch Slide Bearing	(88) x2
KYOE3121	H-998	Shaft Guide	(71) x3
KYOE3130	H-3050	Tail Center Hub	(140) x1 (141) x2
KYOE3140	H-3051	Tail Rotor Hub Bearing	(142) x2
KYOE3150	H-3052	Tail Rotor Grip	(143) (144) x1
KYOE3160	H-3053	Tail Rotor	(145) x1
KYOE3170	H-3066	Tail Linkage Set	(117) (118) x1
KYOE3180	H-3067	Tail Drive Shaft	(69) x2
KYOE3190	H-3068	Tail Boom	(70) x1
KYOE3155	ENS-04	Tail Rotor Grip Axle	(141) x4

EXPLODED PARTS DIAGRAM



Stock #	Parts Pack	Description	Contains
KYOE4010	H-3054	Body Mount Set	(107) (108) x1 (94) (146) (147) x2
KYOE4020	H-3055	Servo Plate / Wire Holder	(97) x2 (96) x10
KYOE4030	H-3056	Fuel Tank Set	(109) (110) (111) (112) (113) (114) (115) (116) x1
KYOE4040	H-3057	Screw Set	
KYOE4050	H-3058	Switch Mount	(106) x1
KYOE4060	H-3059	Decal	(149) x1
KYOE4070	H-3062	Front Frame Set	(95) (99) x1 (98) x2
KYOE4080	H-3064	Antenna Tube	(103) x5
KYOE4090	H-3065	Landing Gear Set	(100) (101) x2 (102) x4
KYOE4100	H-3070	Body	(104) (105) x1
KYOE5017	H-3098	Canopy Only	(105) x1
KYOE4115	H-3072	Double Sided Tape	(153) x1
KYOE6071	H-996	Canopy Screw	(147) x8

KYOE6275

Stock #	Parts Pack	Description	Contains
		OPTIONAL PARTS	
KYOE5010	H-3201	Flapping Hinge Bearing	Replaces (13)
KYOE5020	H-3202	Black Tail Boom	1 Tail Boom
KYOE5025	H-3205	Blade Case	1 Case
KYOE5030	H-3206	2 Blade Set & 1 Case	4 Blades & 1 Case

BAGGED PARTS LIST (1)

(Check The Parts In The Kit)

Check to see if all the parts are correctly bagged as they are listed in the "List of Bagged Parts."
Your thorough understanding of the assembly will enable you to build the kit without any difficulty.

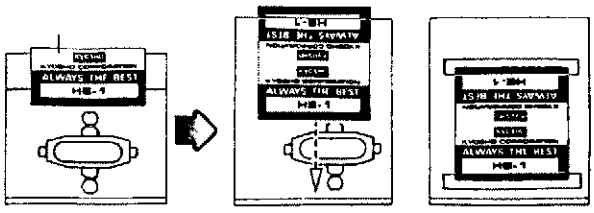
Check the components in the kit prior to your starting assembly.

(DX) Included in DX Kit only.
(SE) Included in SE Kit only.

Bag No.	Parts Name	Key No.
HE-1	Main Rotor Head	① ②×1
	Stabilizer Seesaw	⑤×1
	Hiller Control Lever	⑥ ⑦×1
	Feathering Shaft	⑫ ⑭×2 ⑬×4
	Main Rotor Grip	⑲ ⑳×2
	Flapping Damper	⑮×2
	Blade Holder Bearing	⑯×4
HE-2 (DX)	Mixing Lever Set (DX) (On Mast Assembly HE-8)	㉒ ㉓ ㉔ ㉖ ㉗ ㉘×2
HE-2 (SE)	Mixing Lever Set (SE) (On Mast Assembly HE-8)	㉔ ㉖ ㉘ ㉛×2 ㉜×4 ㉝×8
	Mixing Lever Bearing (SE) (On Mast Assembly HE-8)	㉙×8
HE-3	Linkage Set (A)	㉚×1 ⑧ ⑨ ㉑×2 ⑩×8
HE-4 (DX)	Stabilizer Seesaw Bushing	⑪×2
	Grip Spacer Set	⑰×2 ⑯×4
	Stabilizer Blade (DX)	③×2
	One Way Shaft	㊻ ㊽×1
	Main Gear & One Way Housing (w/Bearing)	㊼ ㊽×1
	Engine Mount (w/Bearing)	㊾ ㊿×1
	Counter Gear Assembly	Assembly (⑱ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽×1)
HE-4 (SE)	Stabilizer Seesaw Bearing (SE)	㉙×2
	Grip Spacer Set	⑰×2 ⑯×4
	Stabilizer Paddles (SE)	㊵×2
	One Way Shaft	㊻ ㊽×1
	Main Gear & One Way Housing (w/Bearing)	㊼ ㊽×1
	Engine Mount (w/Bearing)	㊾ ㊿×1
	Counter Gear Assembly	Assembly (⑱ ㊸ ㊹ ㊺ ㊻ ㊼ ㊽×1)
HE-5	Starter Cone	㊷ ㊸×1
	Drive Gear (Clutch Bell)	㊻×1 (with liner)
	Clutch	㊺×1
HE-6	Elevator Lever Set	㉜ ㉝×1 ㉞ ㊴×2 ('E-Ring ×2)
	Aileron Pitch Lever Set	㉝ ㉟ ㊲ ㊱×1 (E-Ring ×2)
	Rudder Linkage Set	㊽ ㊾×1
HE-7	Main Frame Inserts	㊶×1 ㊵×3
	Fan Shroud	㊼ ㊽×1
	Main Frame	㊶ ㊷×1
HE-8 (DX)	Mast Assembly (DX)	Assembly (㉑ ㉙ ㉚ ㉛ ㊵ ㊶ ㊷ ㊸ ㊹ ㊾×1 ㉙×2)

BAGGED PARTS LIST (2)

Under each part during assembly is a header number of the bag, which contains the part.
Do not discard the header when you pick up a part from the bag, but keep it in the bag or tape it down.



Bag No.	Parts Name	Key No.
HE-8(SE)	Mast Assembly (SE)	Assembly (㉑ ㉓ ㊳ ㊴ ㊵ ㊶ ㊷ ㊸ ㊹ × 1 ㉓ ㊲ × 2)
HE-9	Linkage Set (B)	㉞ ㉒ ㉓ ㉖ × 1 ㉟ × 2 ⑩ × 3
HE-10	Tail Set	㉒ ㉓ ㉔ × 1
	Tail Gear Case	㊵ ㊶ × 1
	Tail Rotor Grip	㊸ ㊹ × 2
	Tail Blade	㊺ × 2
HE-11	Tail Drive Joint	㉕ × 1
	Tail Output Shaft	㉙ ㉜ × 1
	Tail Output Shaft Bearing	㉝ × 2
	Tail Pitch Slide Bearing	㊽ × 2
	Tail Center Hub	㊾ × 1 ㊿ × 2
	Tail Center Hub Bearing	㊷ × 2
	Tail Gear (w/Bearing)	Assembly (㉗ × 1 ㉘ × 2) ㉘ × 1
HE-12	Tail Pitch Lever Set	㉗ ㉞ ㉟ ㊴ × 1 ㊵ × 2
	Tail Slide Ring	㊻ ㊼ ㊶ ㊷ × 1 (With the part 87 pressed in place.)
HE-13	Body Catch Set	㊼ ㊽ × 1 ㉞ ㊾ × 2
	Servo Mounting Plate	㉗ × 2 ㊻ × 10
HE-14	Fuel Tank Set	㊽ ㊾ ㊿ ㊿ ㊿ ㊿ ㊿ ㊿ × 1
HE-15	Switch Mount	㊻ × 1
	Front Frame Set	㉟ ㊴ × 1 ㊽ × 2
HE-16	Skid Set	㊾ ㊿ × 2 ㊿ × 4
	Double Sided Tape	㊿ × 1
	Rubber Band	㊽ × 1
HE-17 (DX)	Tail Linkage Set	㊼ ㊽ × 1
	Stabilizer Bar (Flybar)	④ × 1
	Tail Boom (w/Shaft Guide) (DX)	(㊵ ㊶ × 1) Pressed in Place
	Tail Drive Shaft	㊾ × 1
	Antenna Tube	㊽ × 1
	Control Rod (Rudder)	㊼ × 1
HE-17 (SE)	Tail Linkage Set	㊼ ㊽ × 1
	Tail Boom (w/Shaft Guide) (SE)	(㊵ ㊿ ㊿ × 1) Pressed in Place
	Tail Drive Shaft	㊾ × 1
	Antenna Tube	㊽ × 1
	Control Rod (Rudder)	㊼ × 1
	Stabilizer Bar (Flybar)	④ × 1
HE-18	Decal	㊾ × 1
	Pitch Gauge	× 1
	Main Rotor	㉕ × 2
	Body Set	㊿ ㊻ × 1
	Instruction	× 1
	Screw,Nut,Washer,Hexagon Wrench,Plug Wrench	Set

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